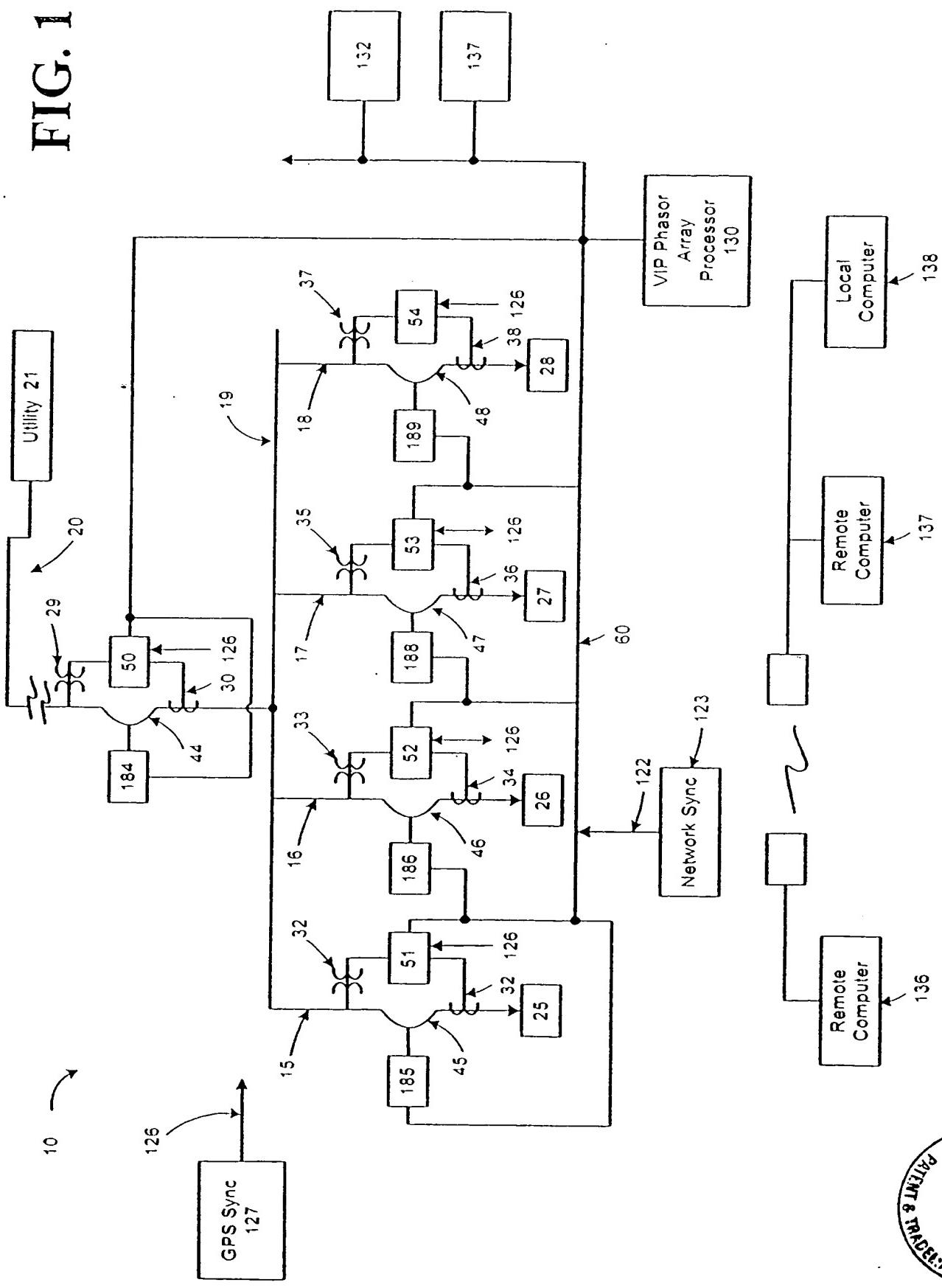


Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76

1 Oct 2007

FIG. 1

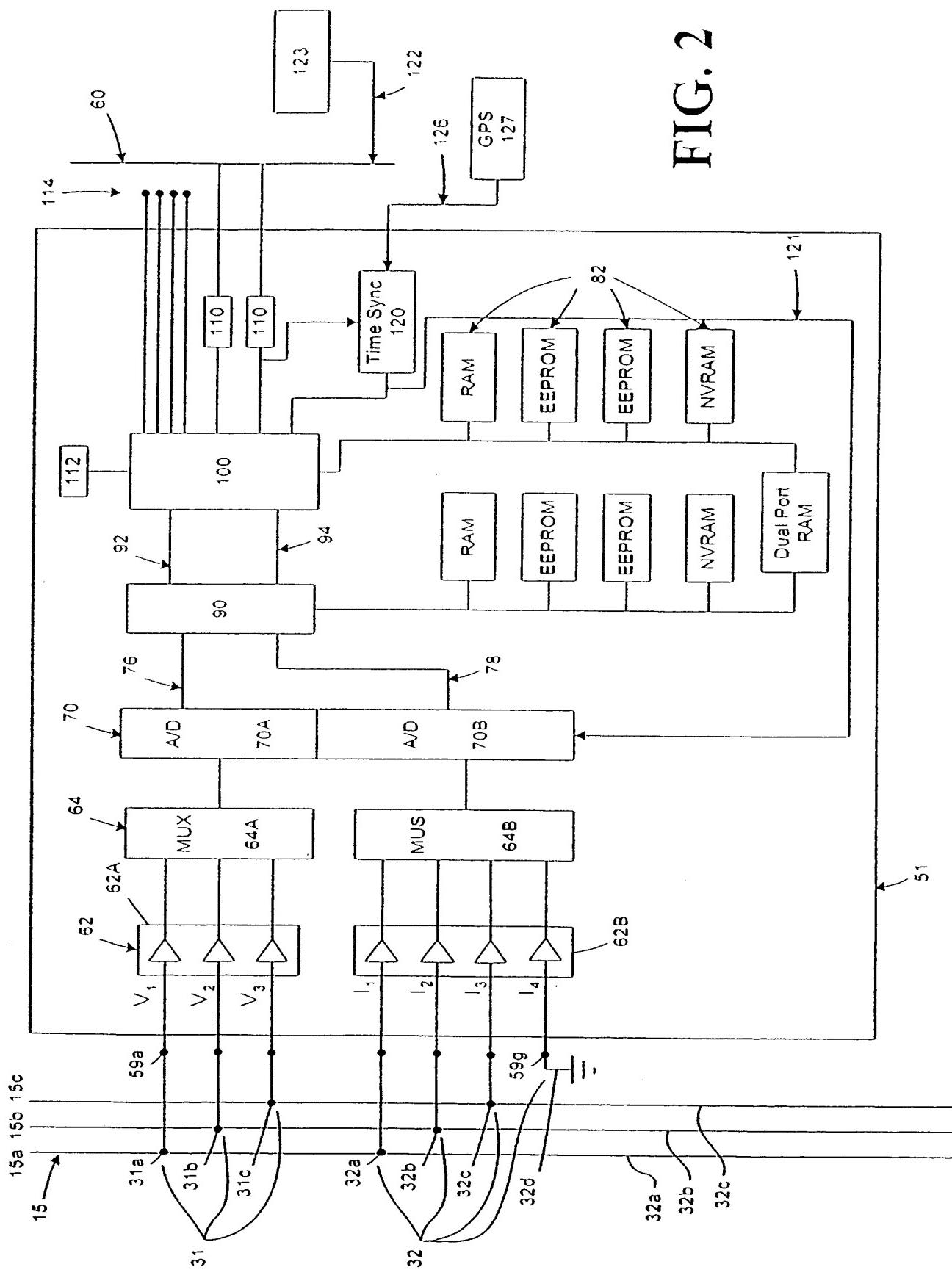


Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM, OR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s) - Ronald G. Hart
Attorney Docket No.: 6270/76

2 4 287

FIG. 2

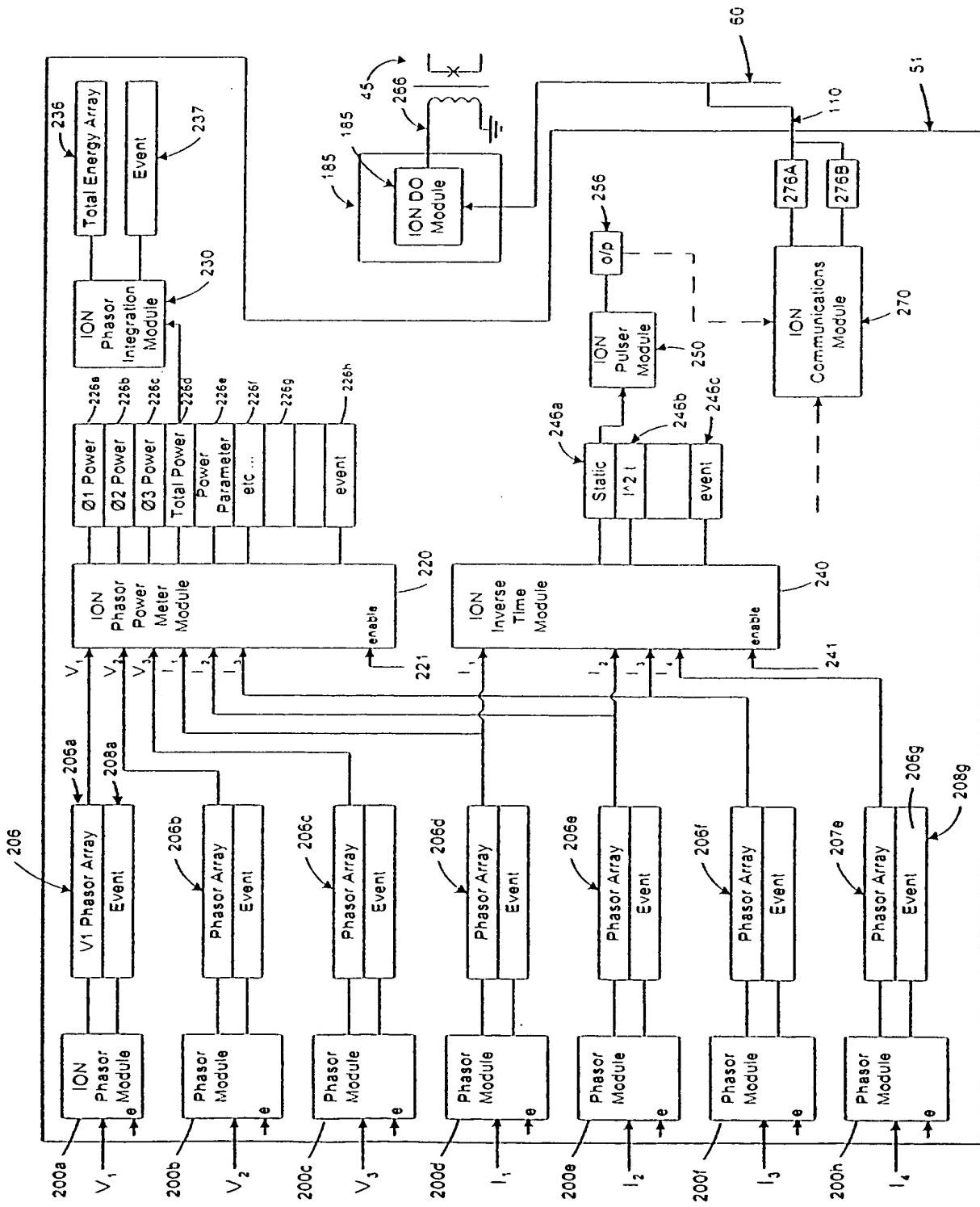


Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76

3 of 207

FIG. 3



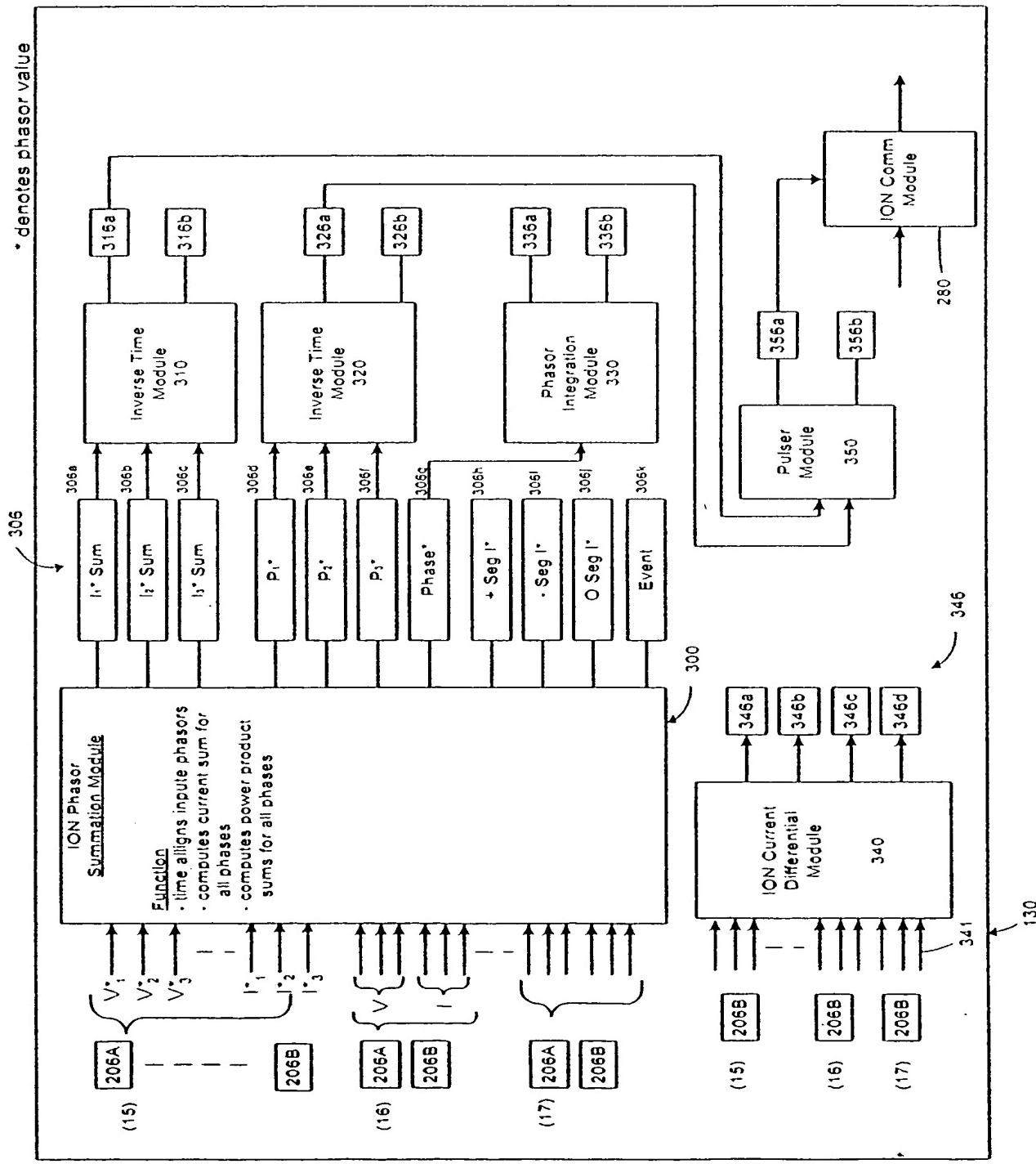
Phasor ION Module Diagram

Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No.: 6270/16

4 of 207

FIG. 4



Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No.: 6270/96

5 of 207

FIG. 5

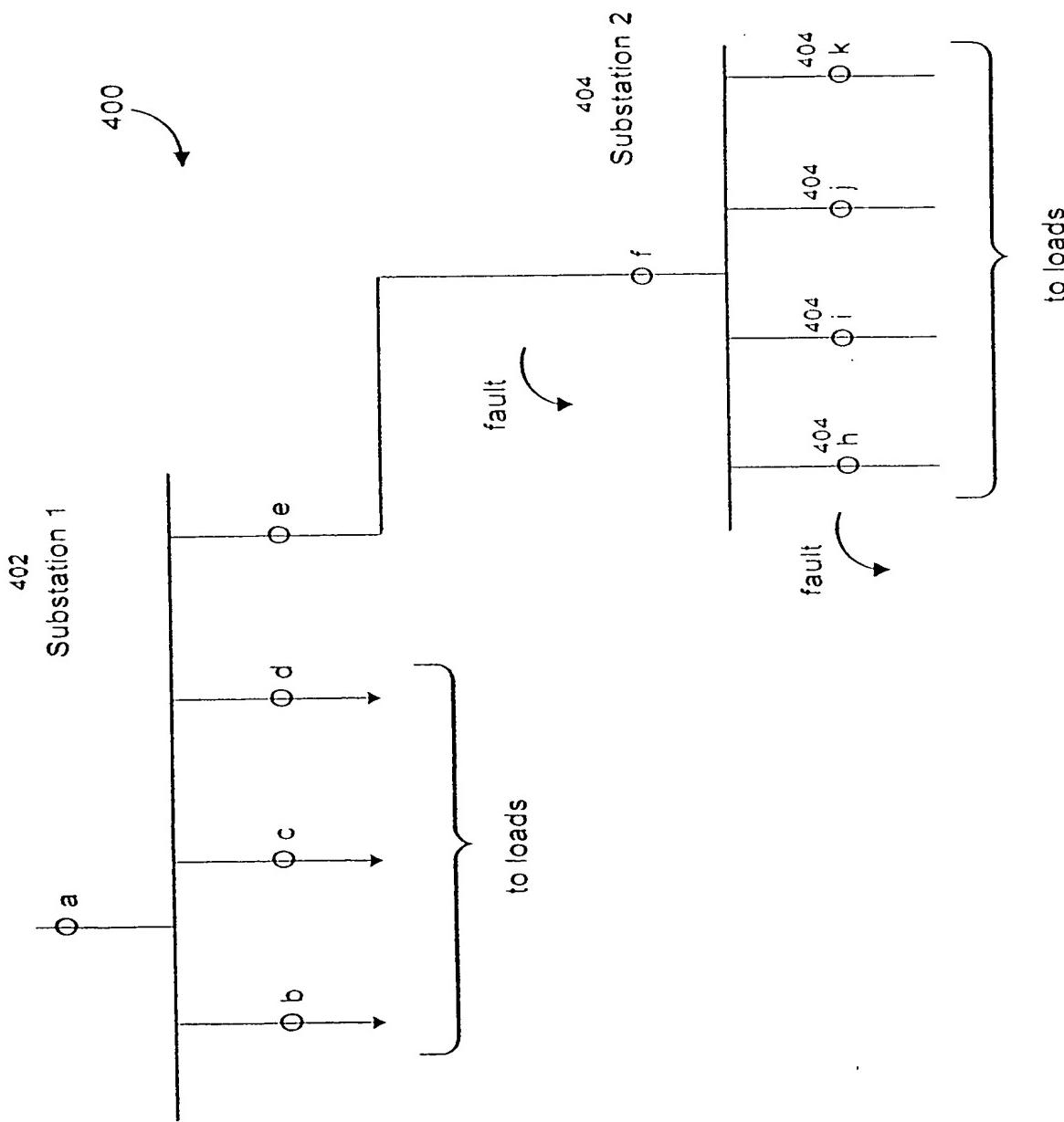


FIG. 6

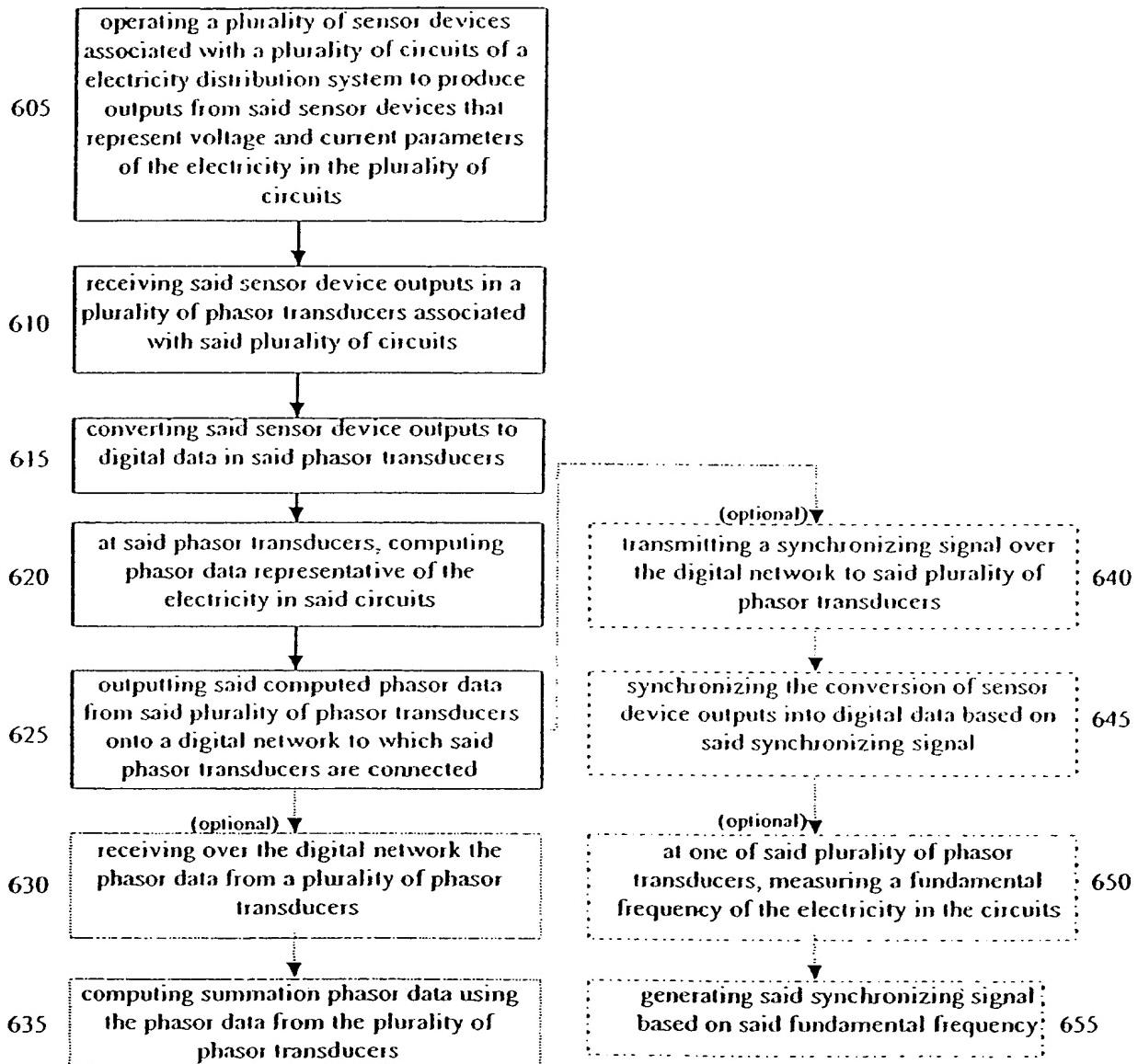


FIG. 7

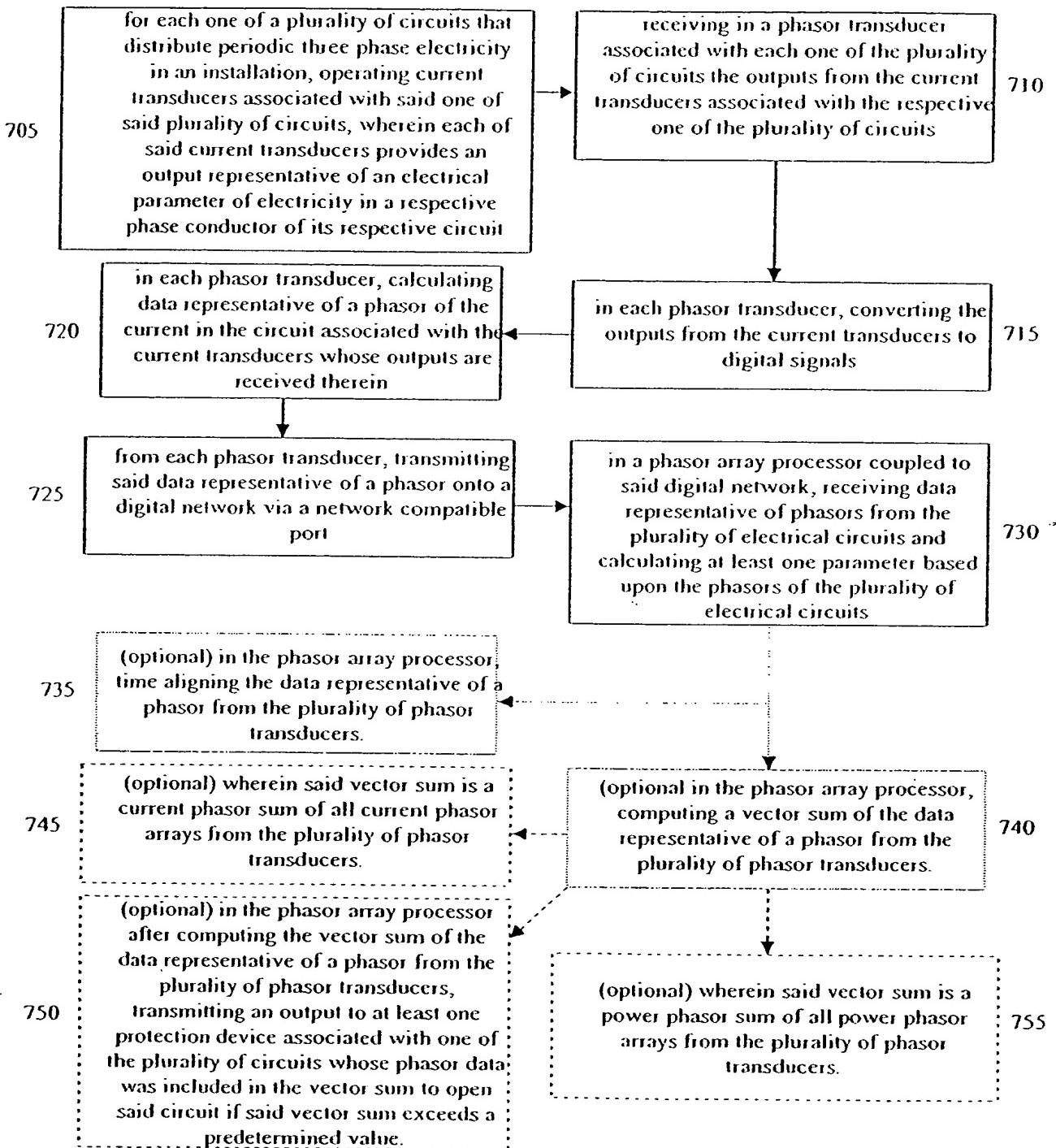


FIG. 8

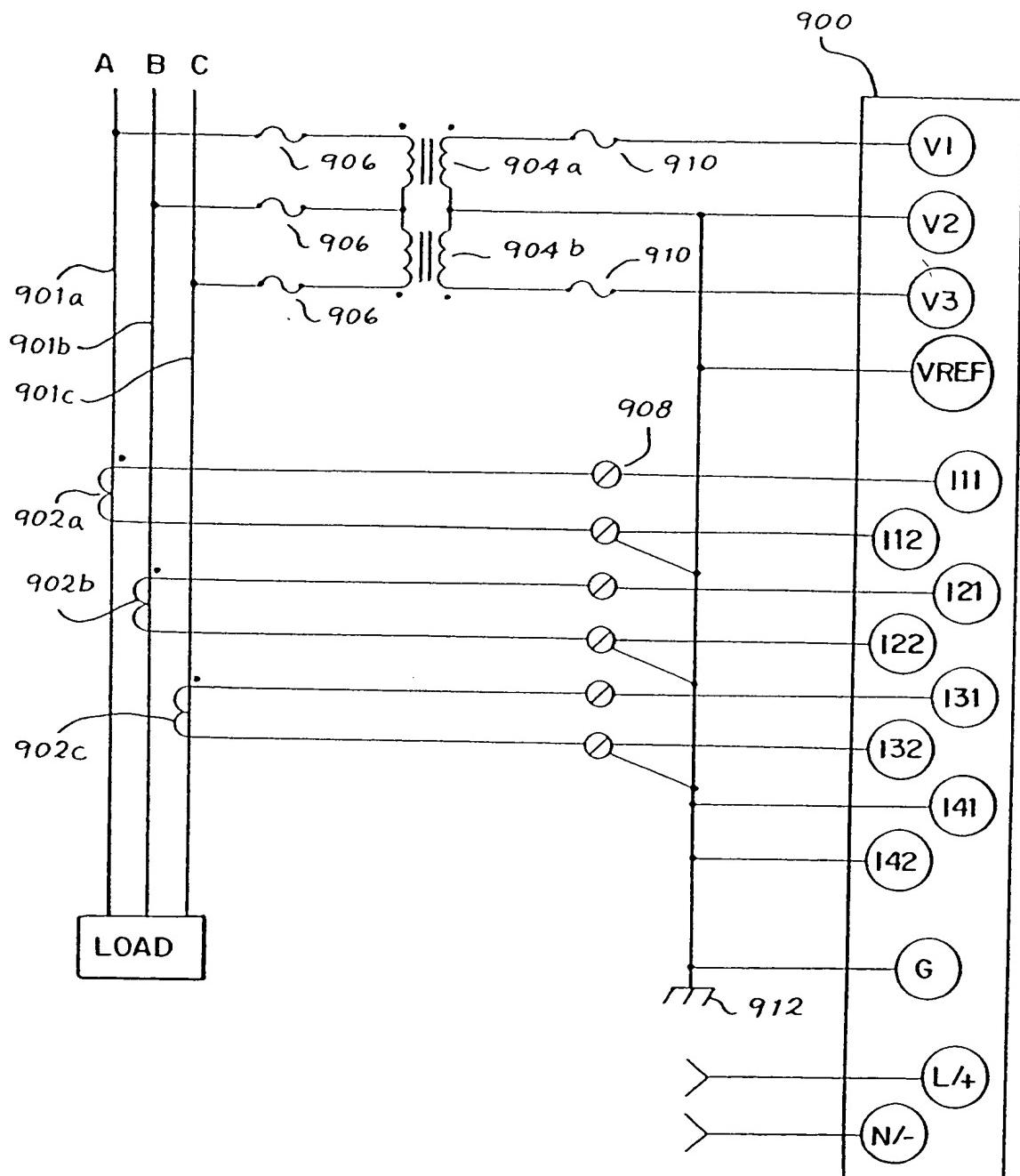


FIG. 9

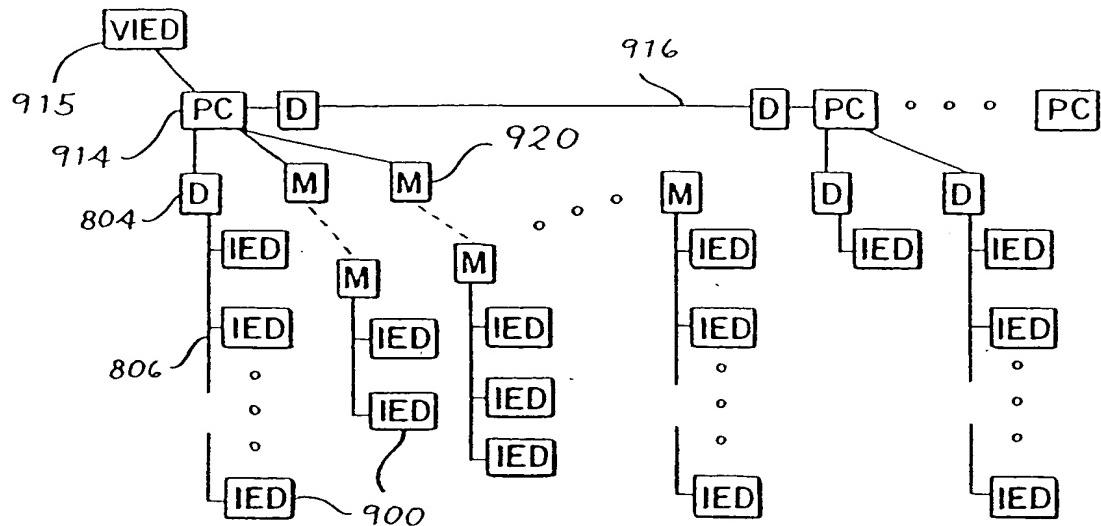


FIG. 11

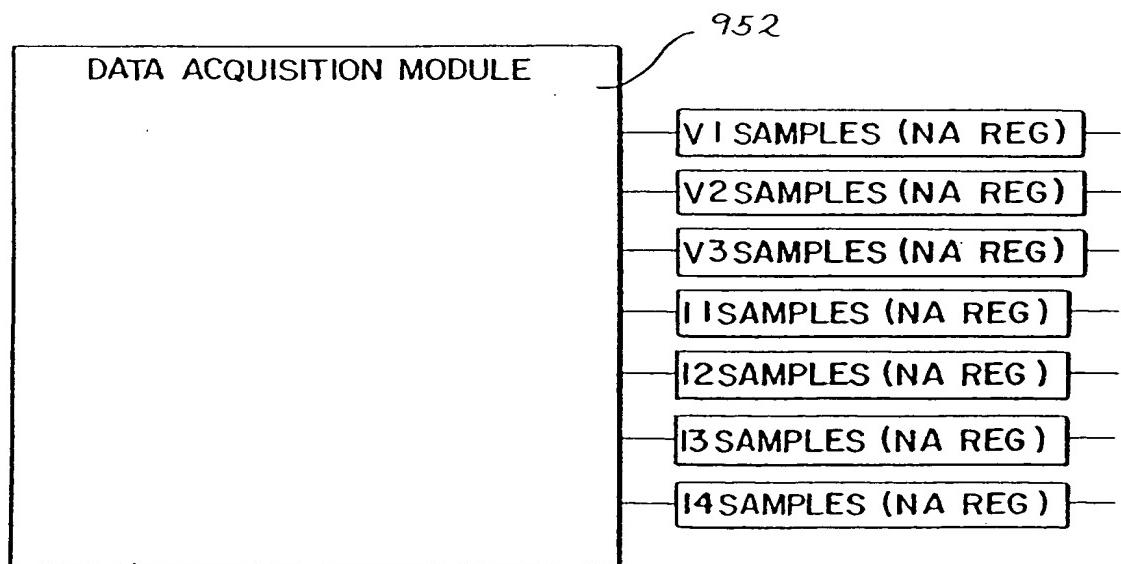
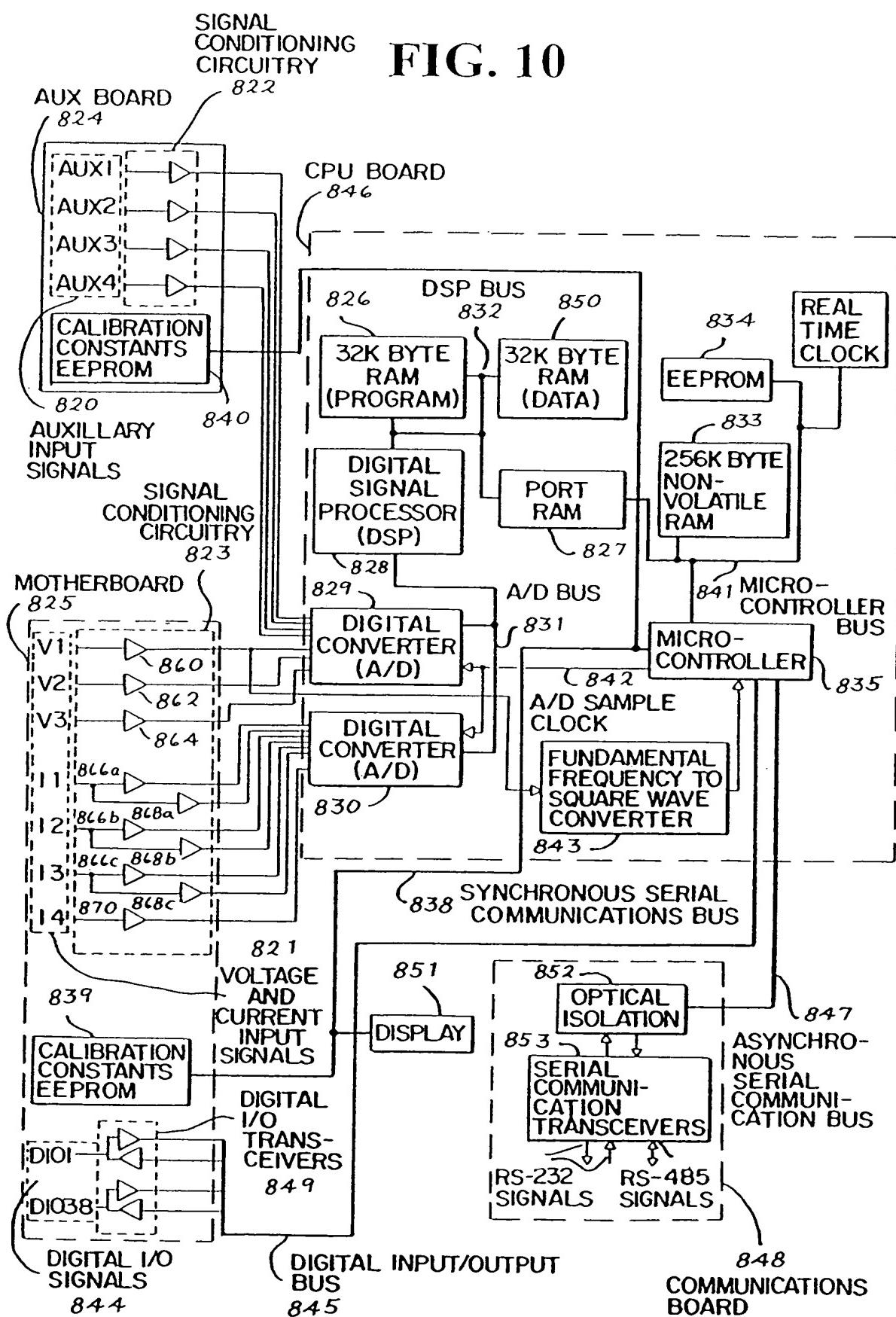


FIG. 10



DATA ACQUISITION
MODULE
OPERATION (CLIENT
PORTION)

FIG. 11A

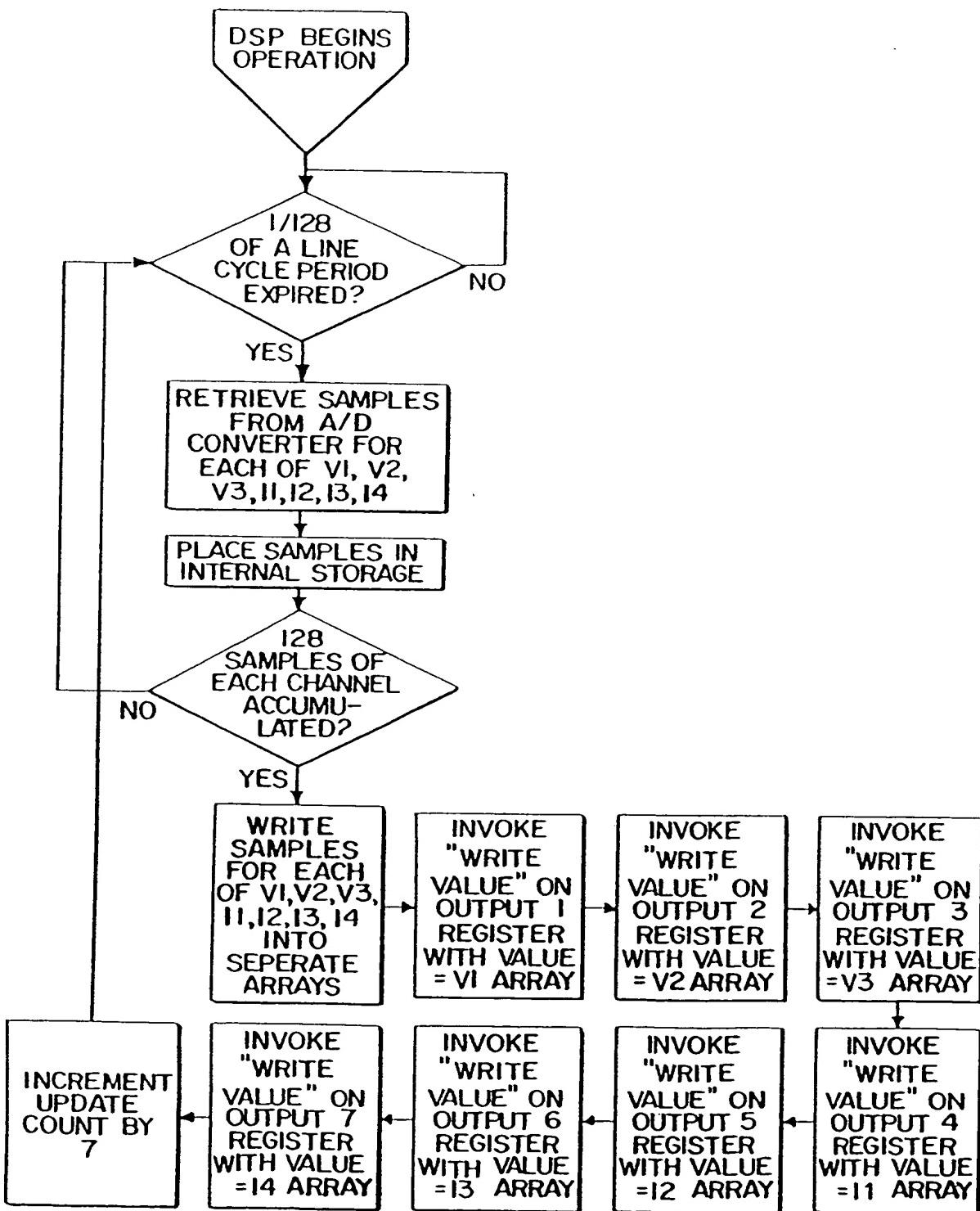


FIG. 12

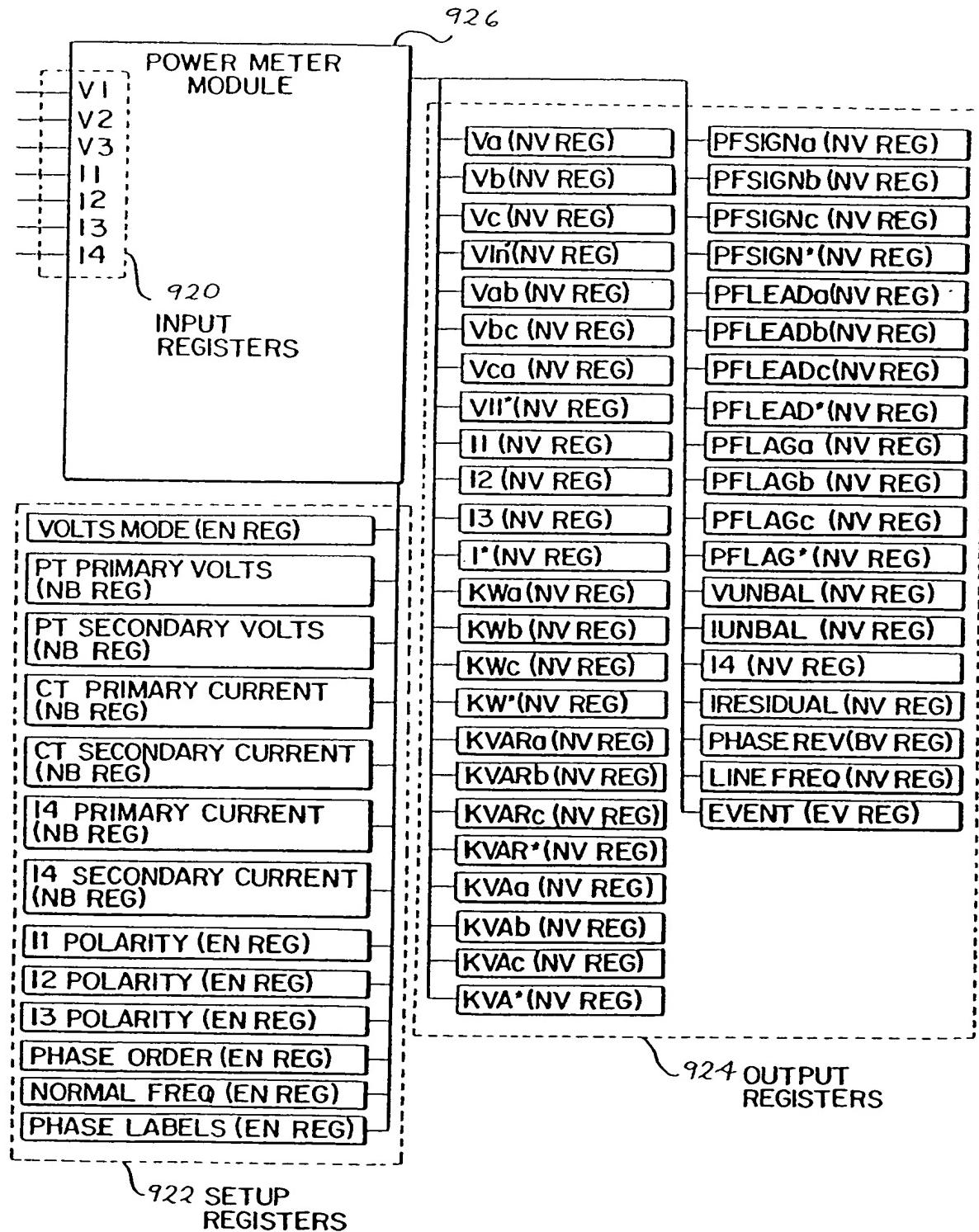
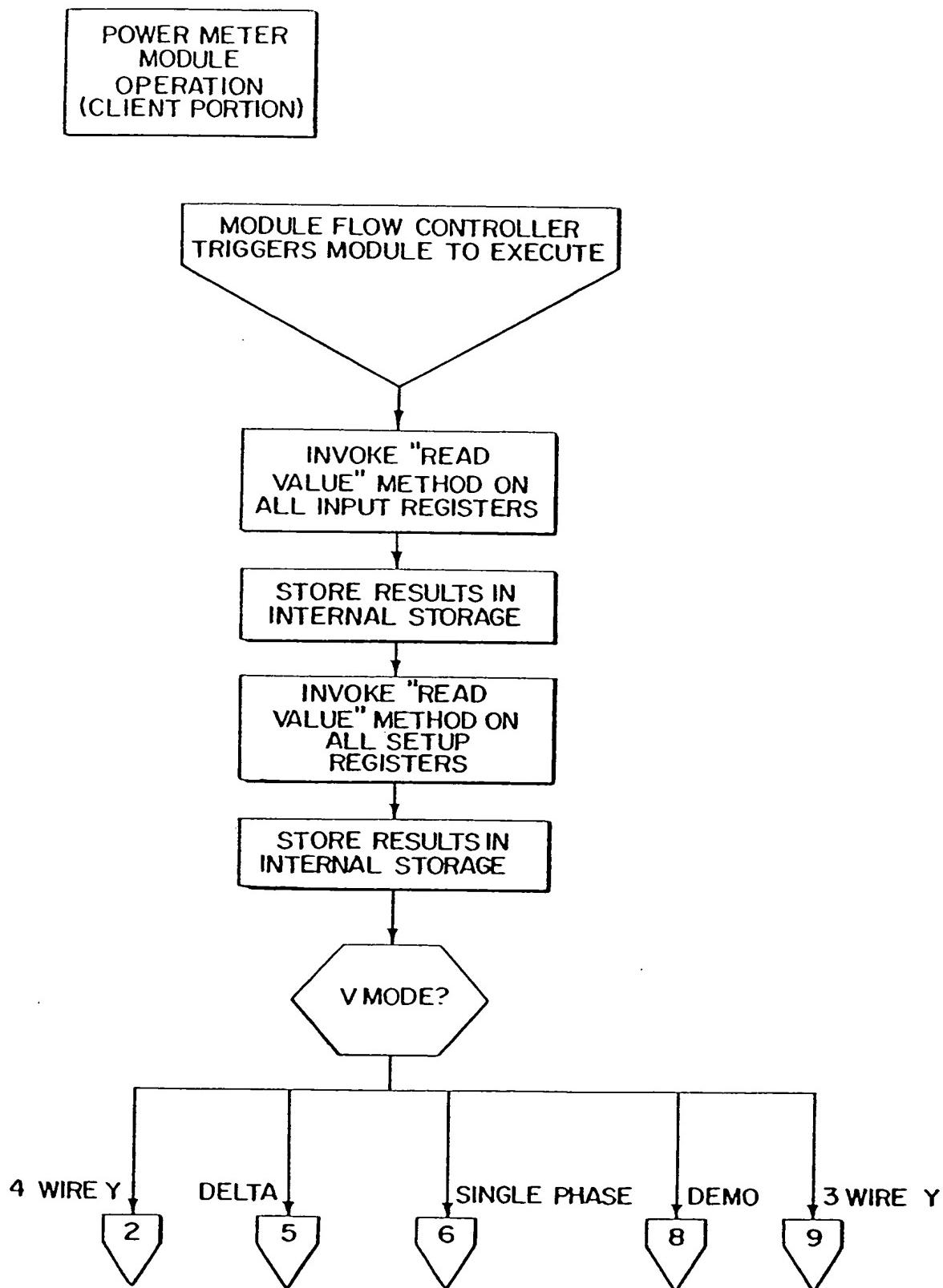


FIG. 12A



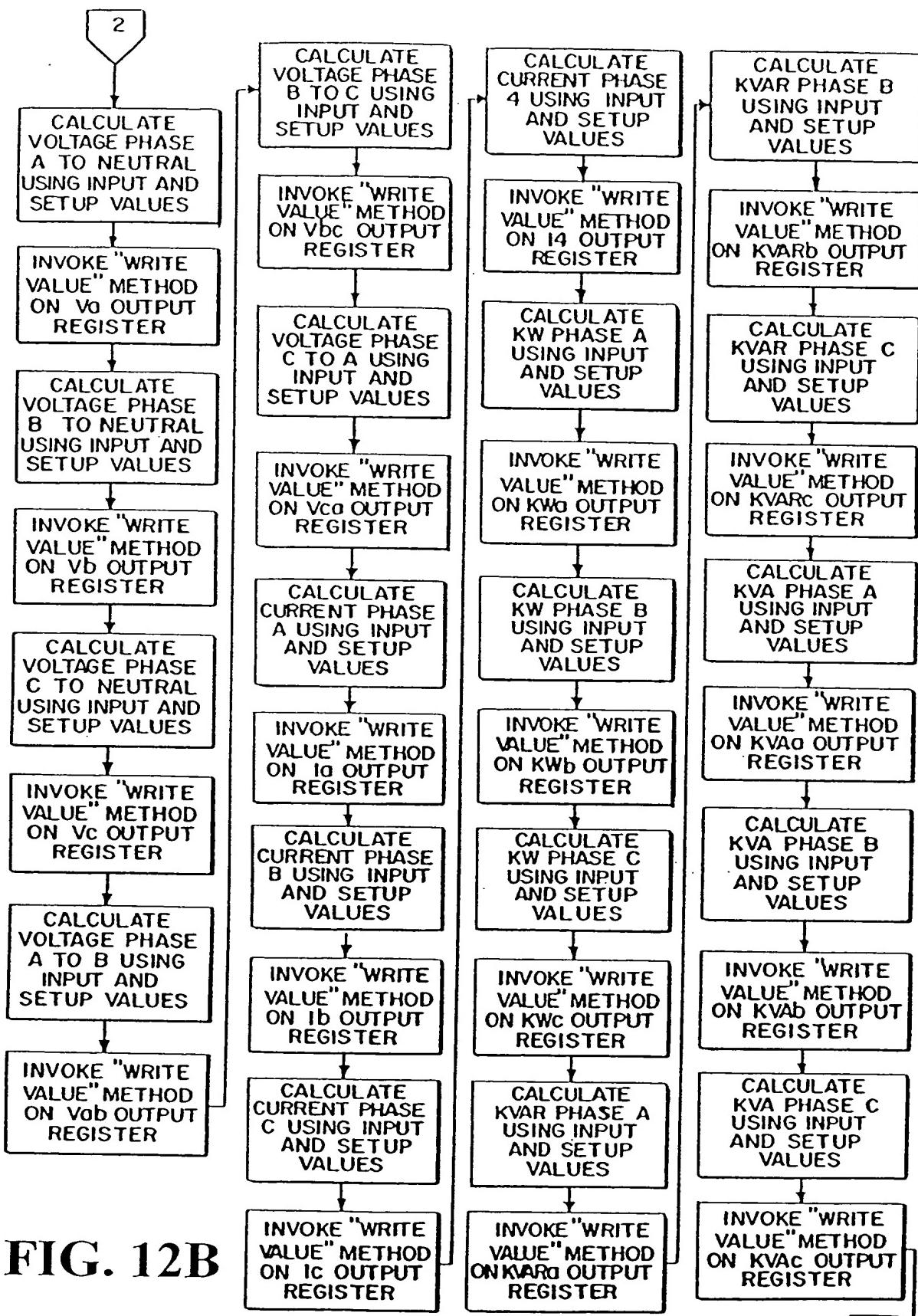


FIG. 12B

FIG. 12C

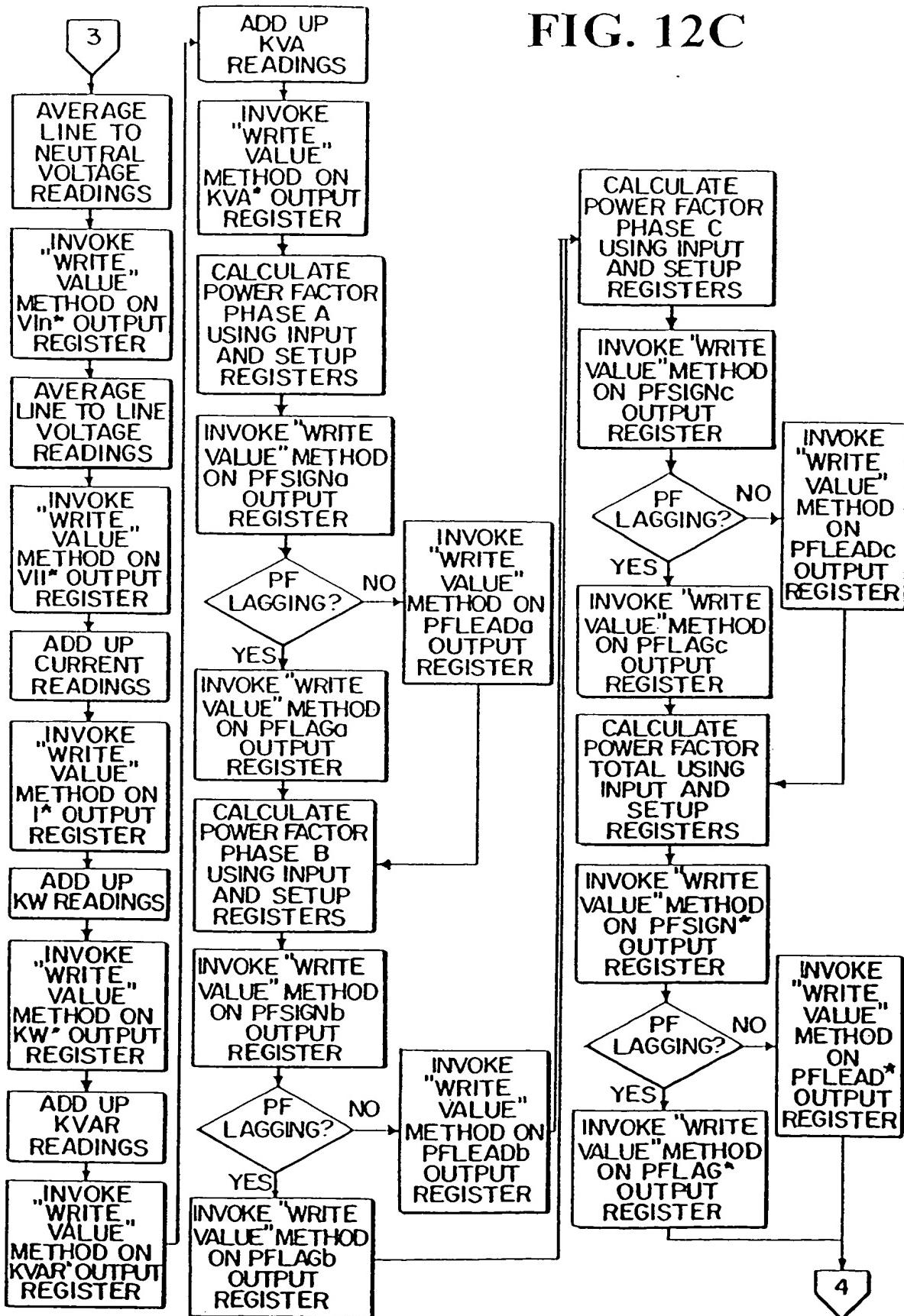


FIG. 12D

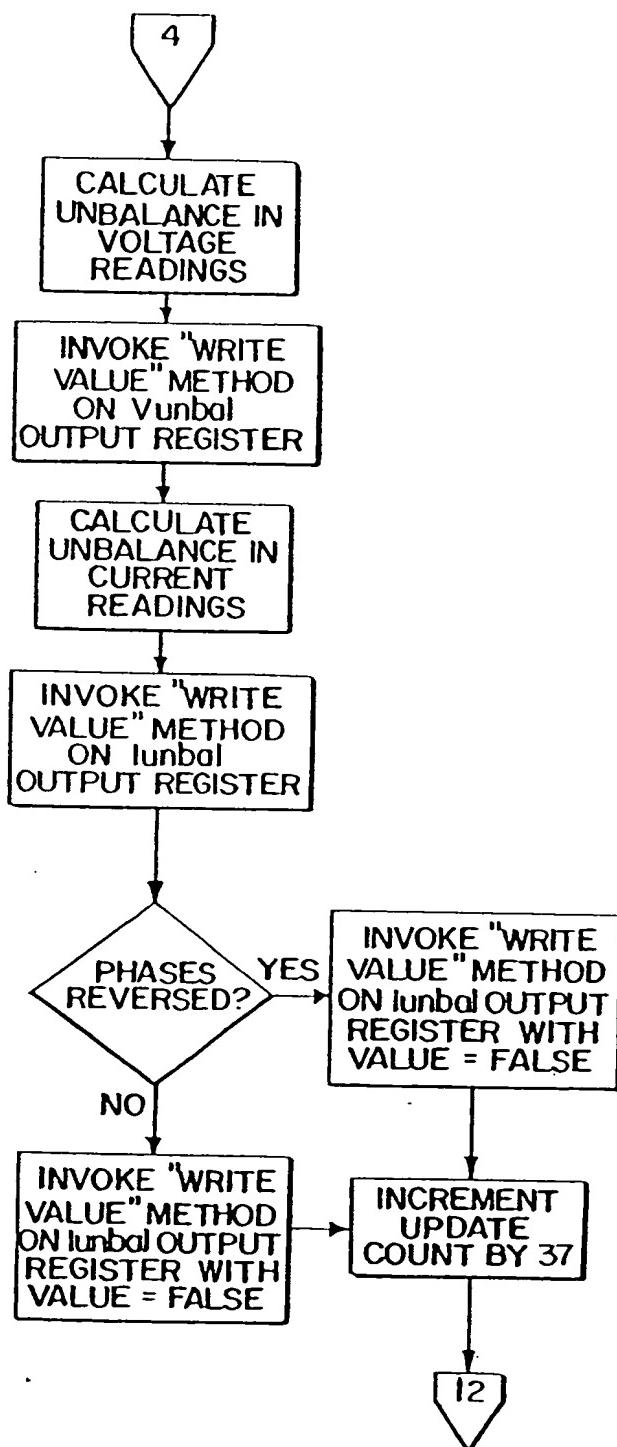
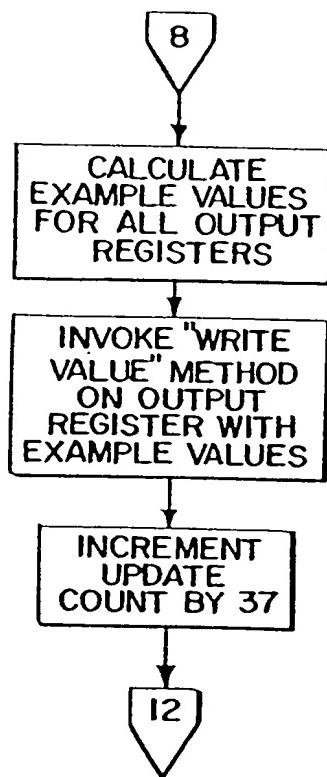


FIG. 12H



17 8 207

FIG. 12E

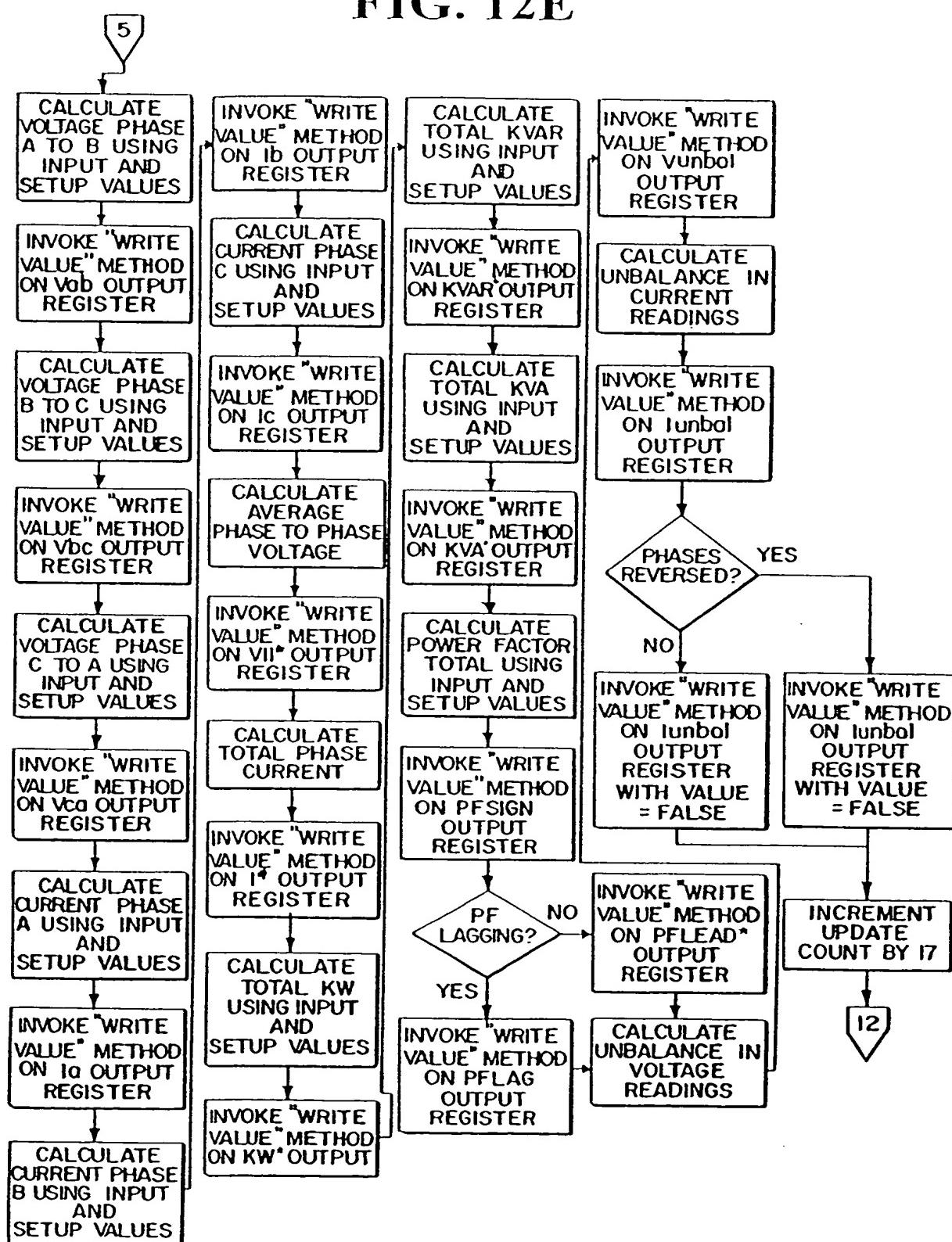


FIG. 12F

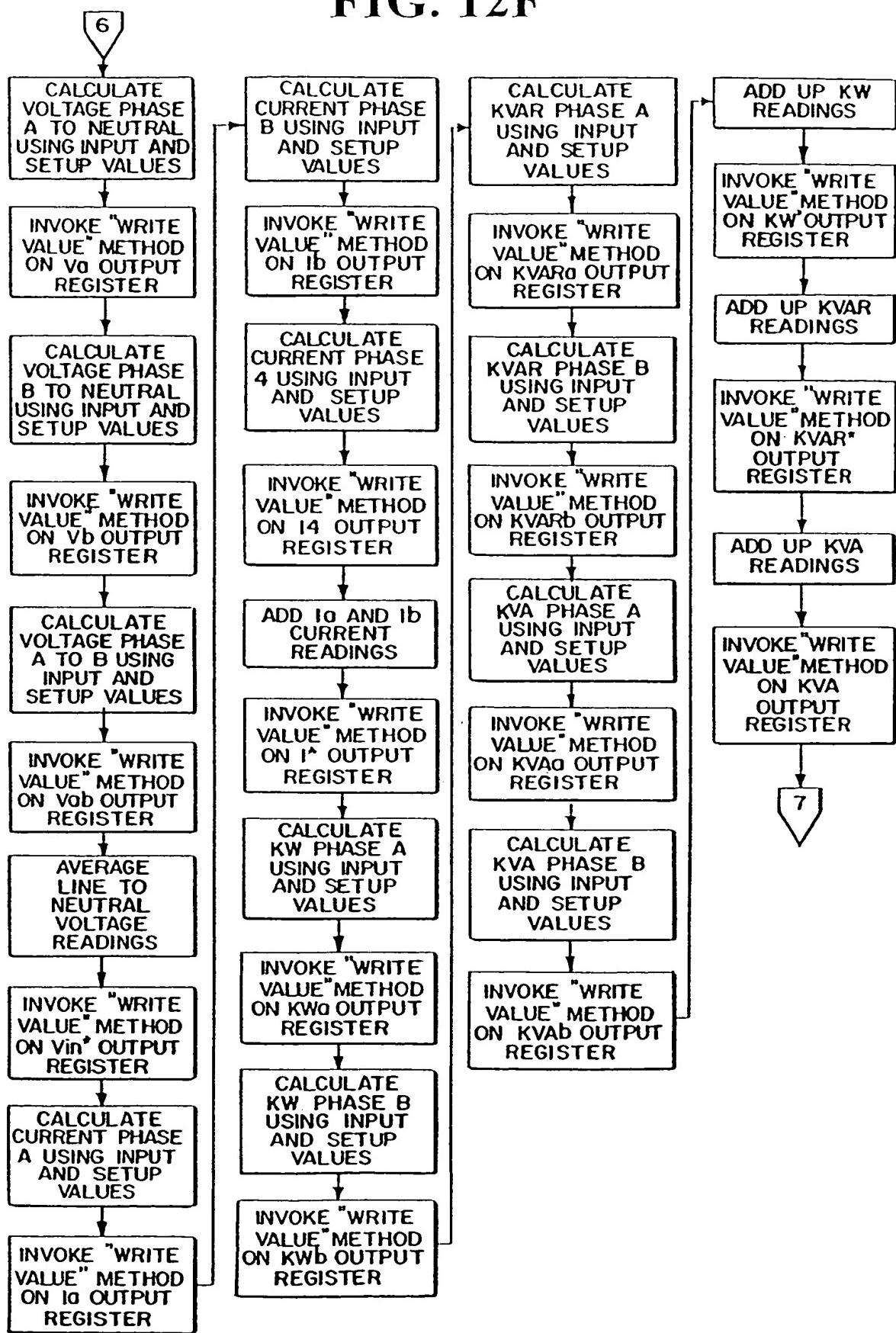
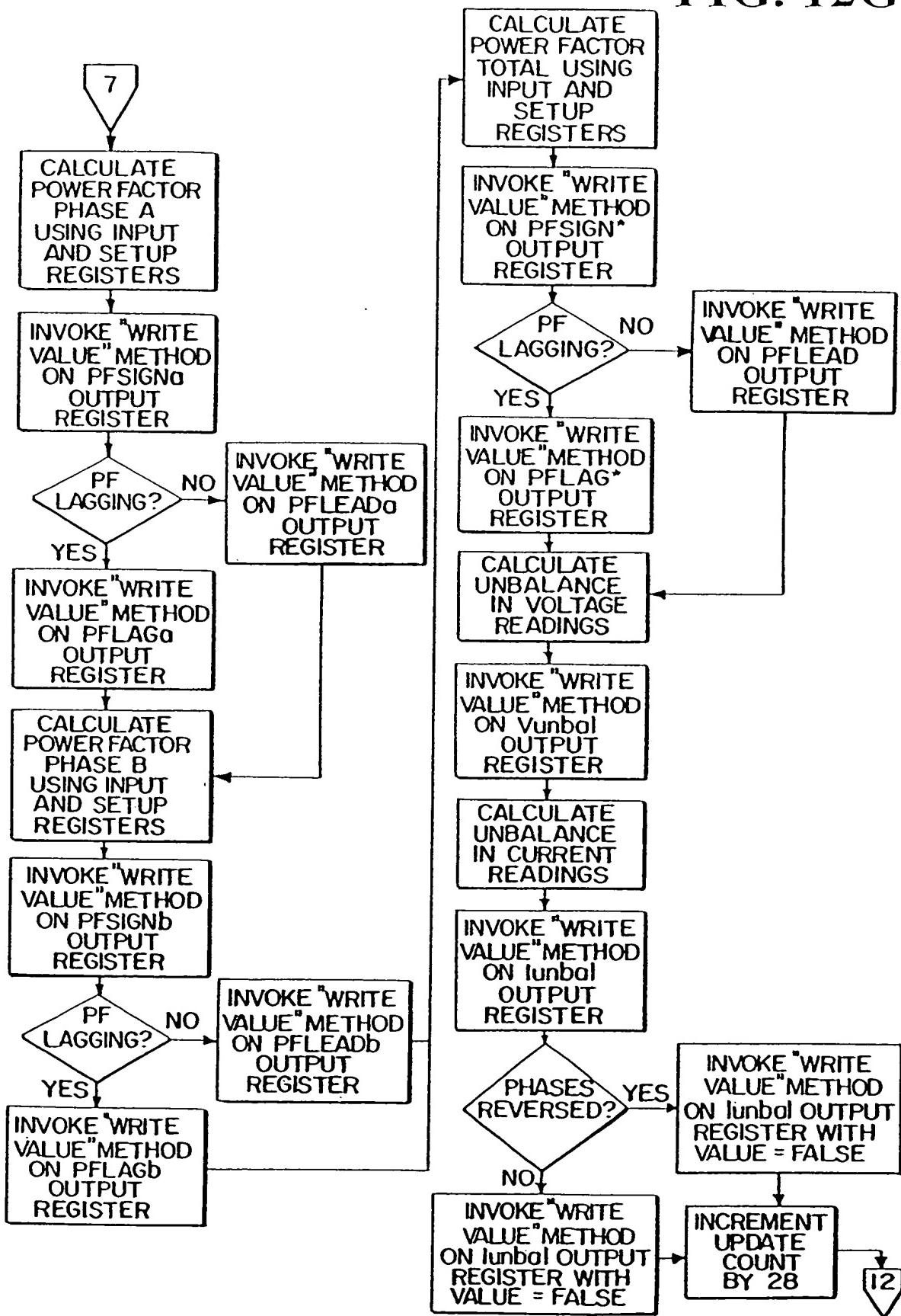


FIG. 12G



Patent Application For PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No.: 6270/76

20 of 27

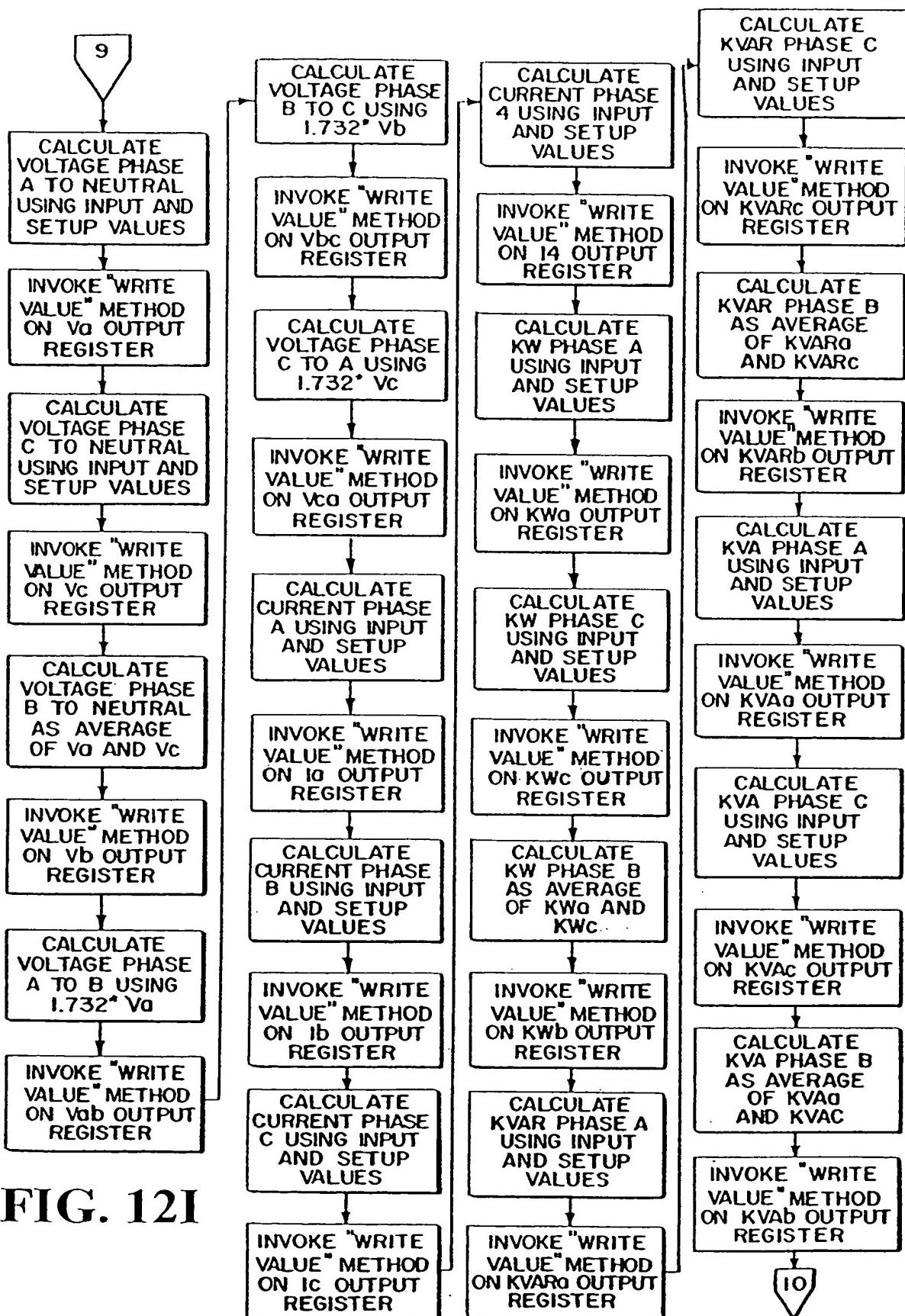


FIG. 12I

21 56307

FIG. 12J

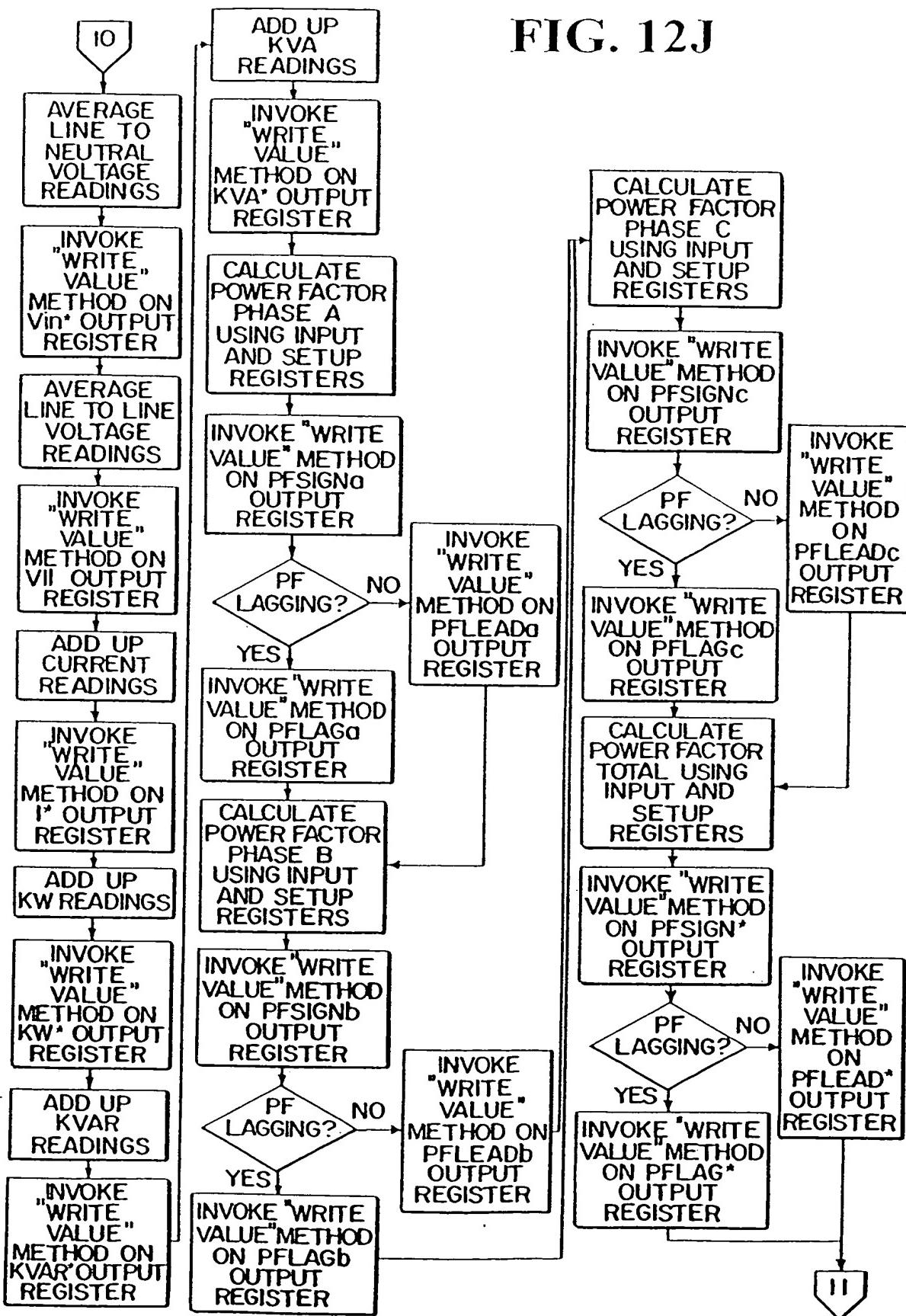


FIG. 12K

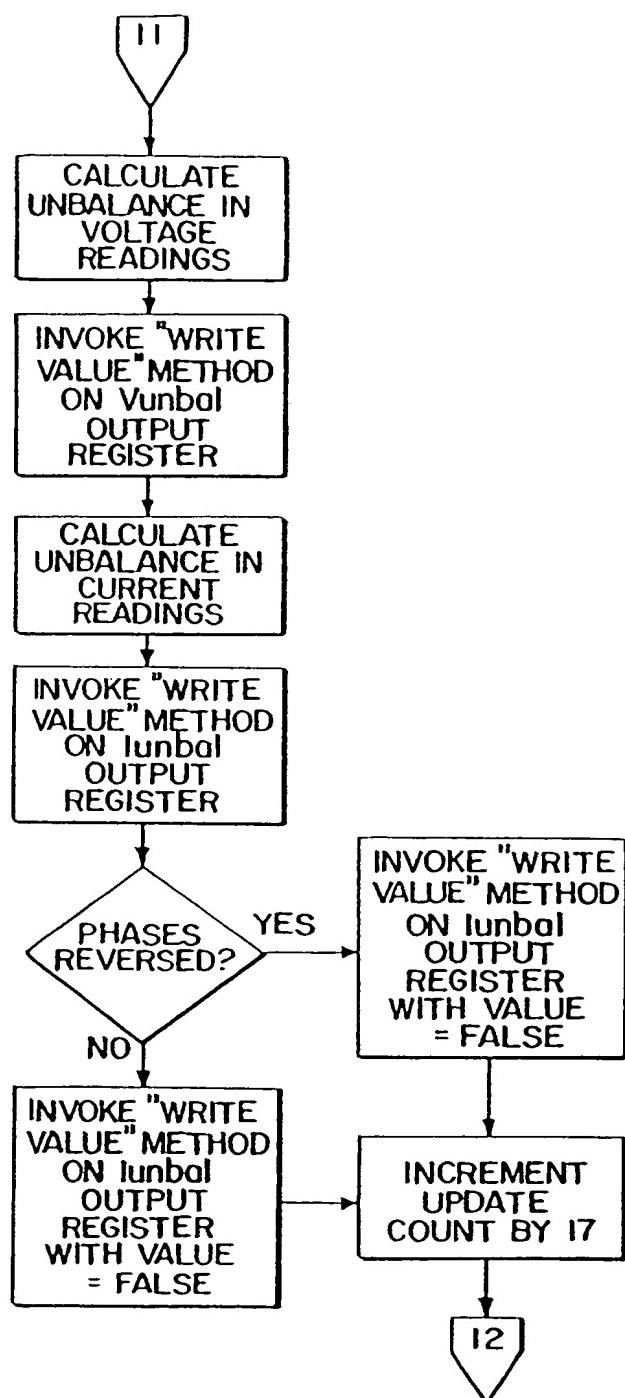


FIG. 12L

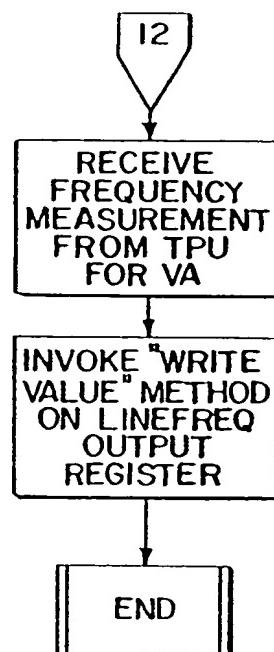


FIG. 13

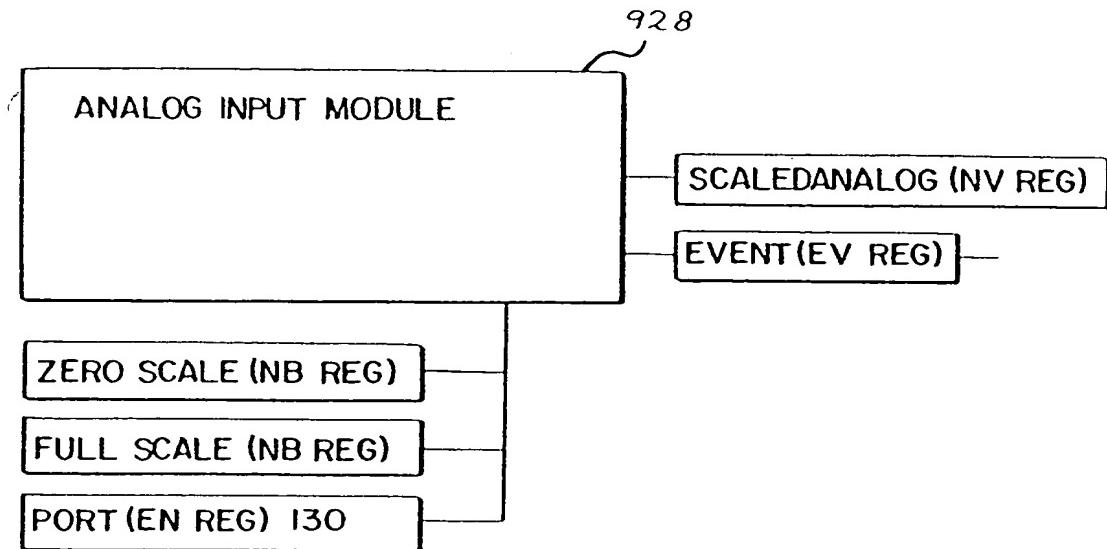


FIG. 14

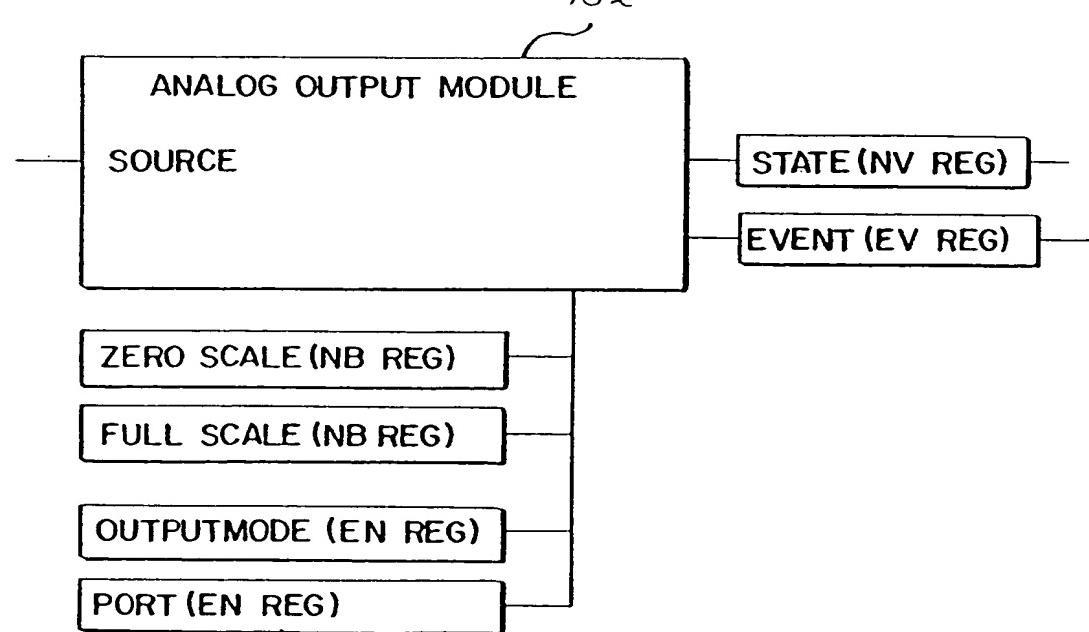


FIG. 13A

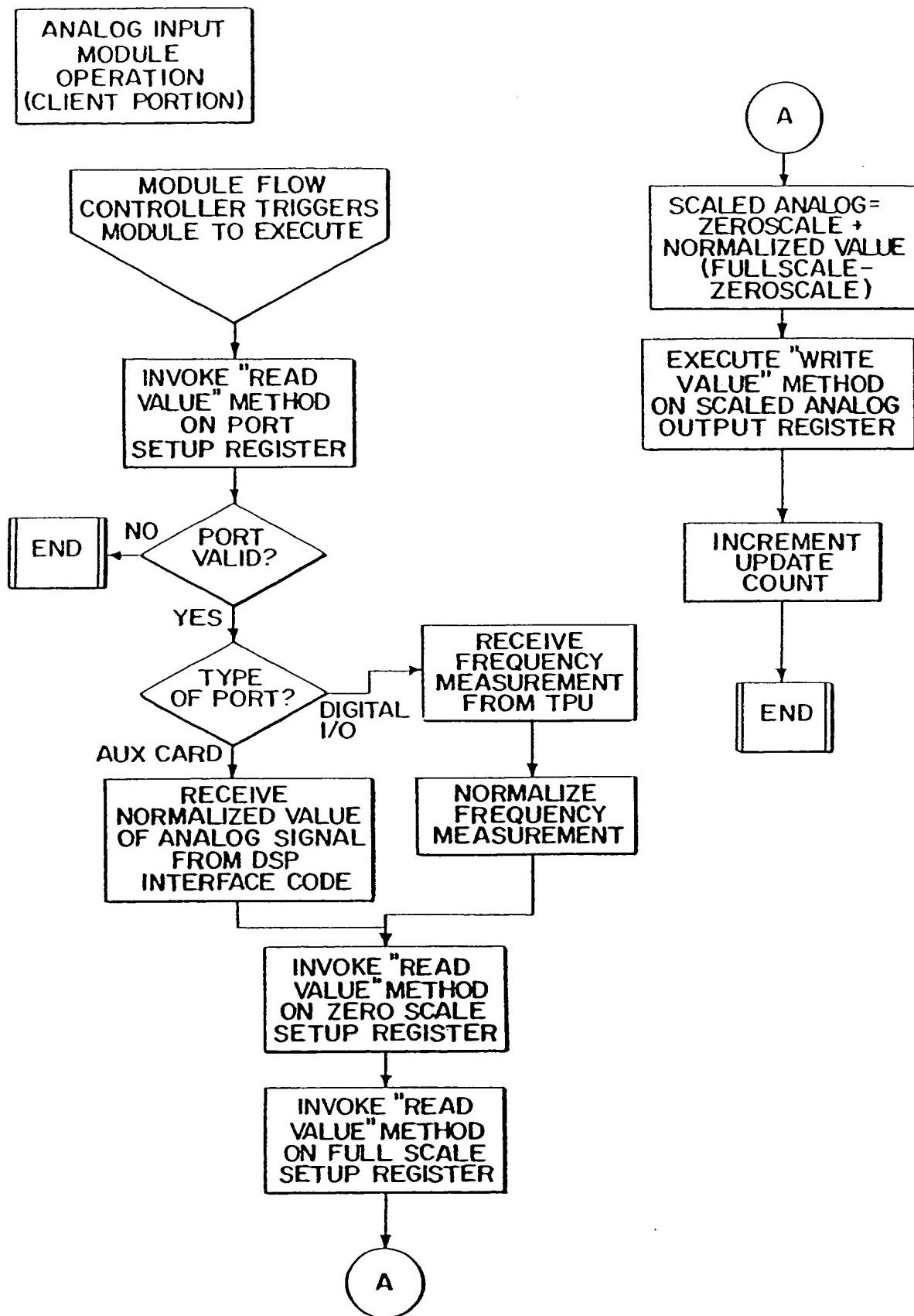


FIG. 14A

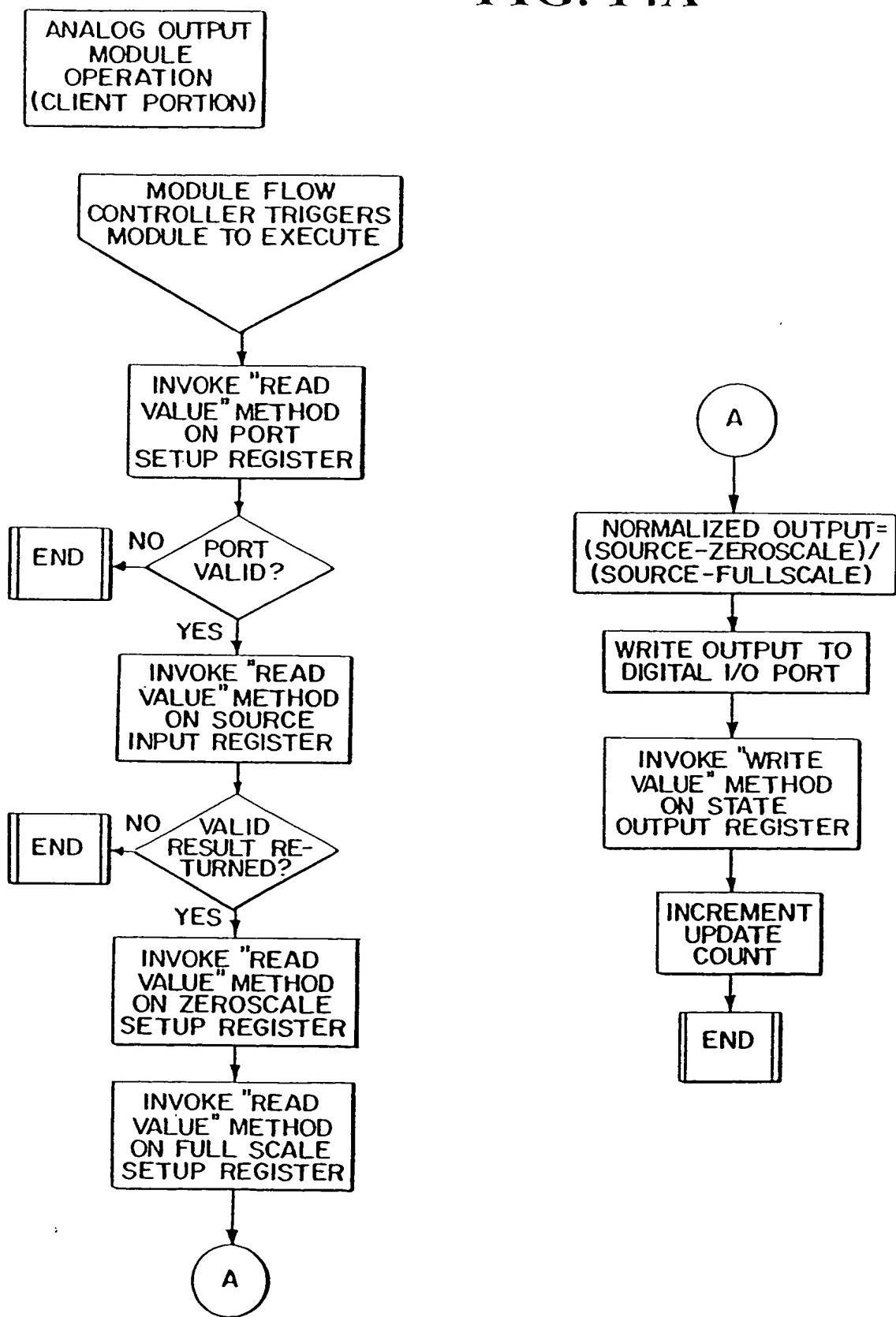


FIG. 15

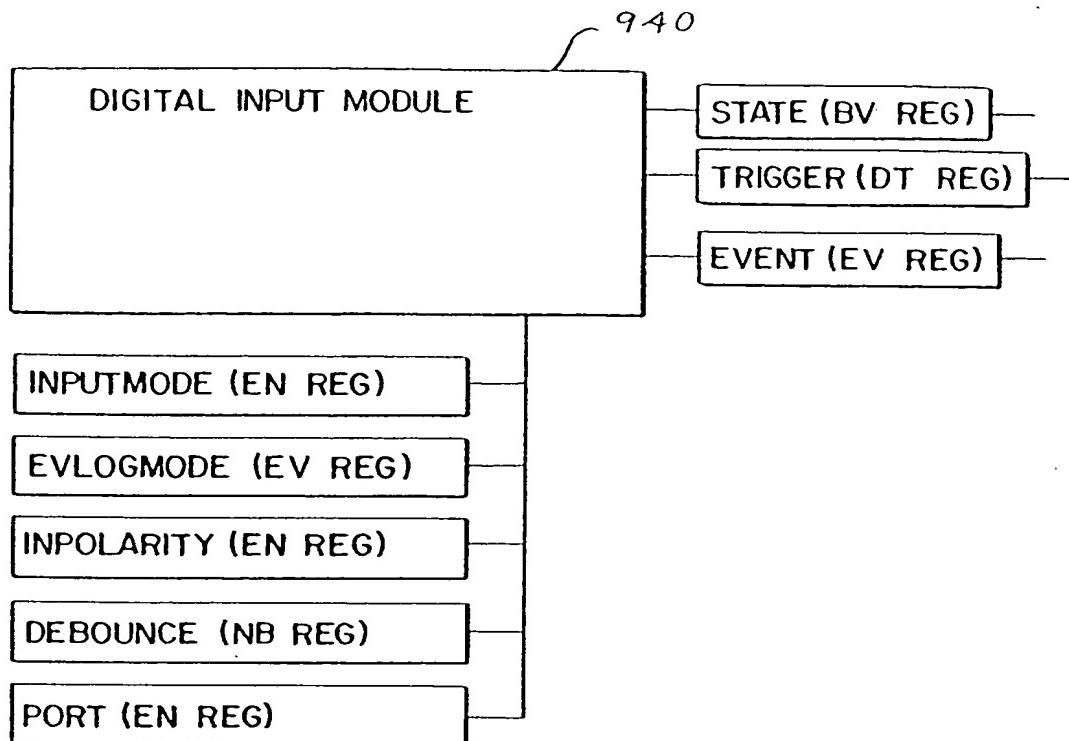


FIG. 16

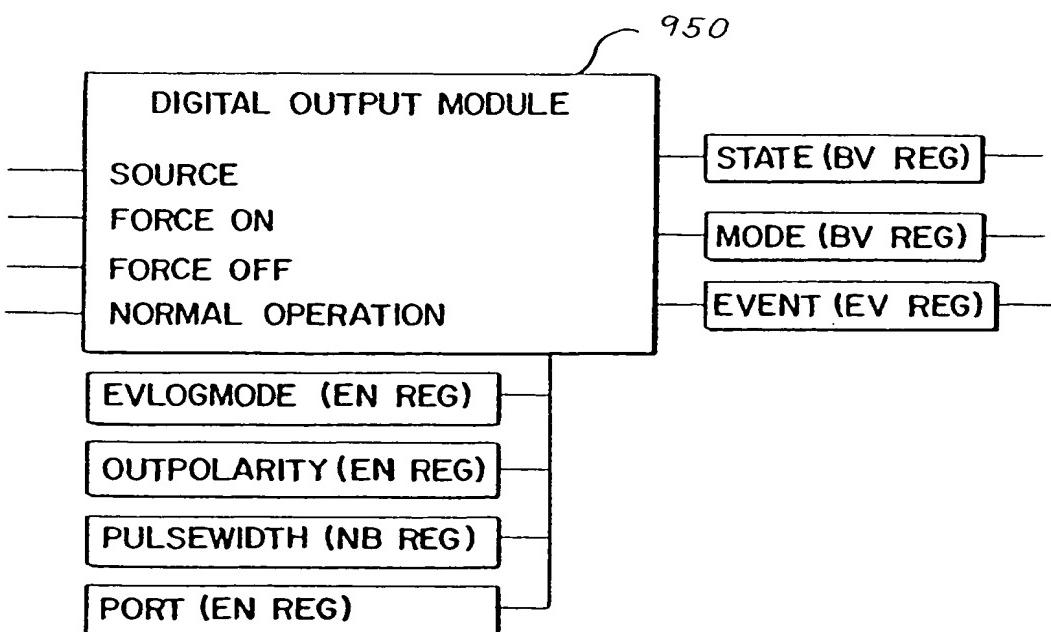


FIG. 15A

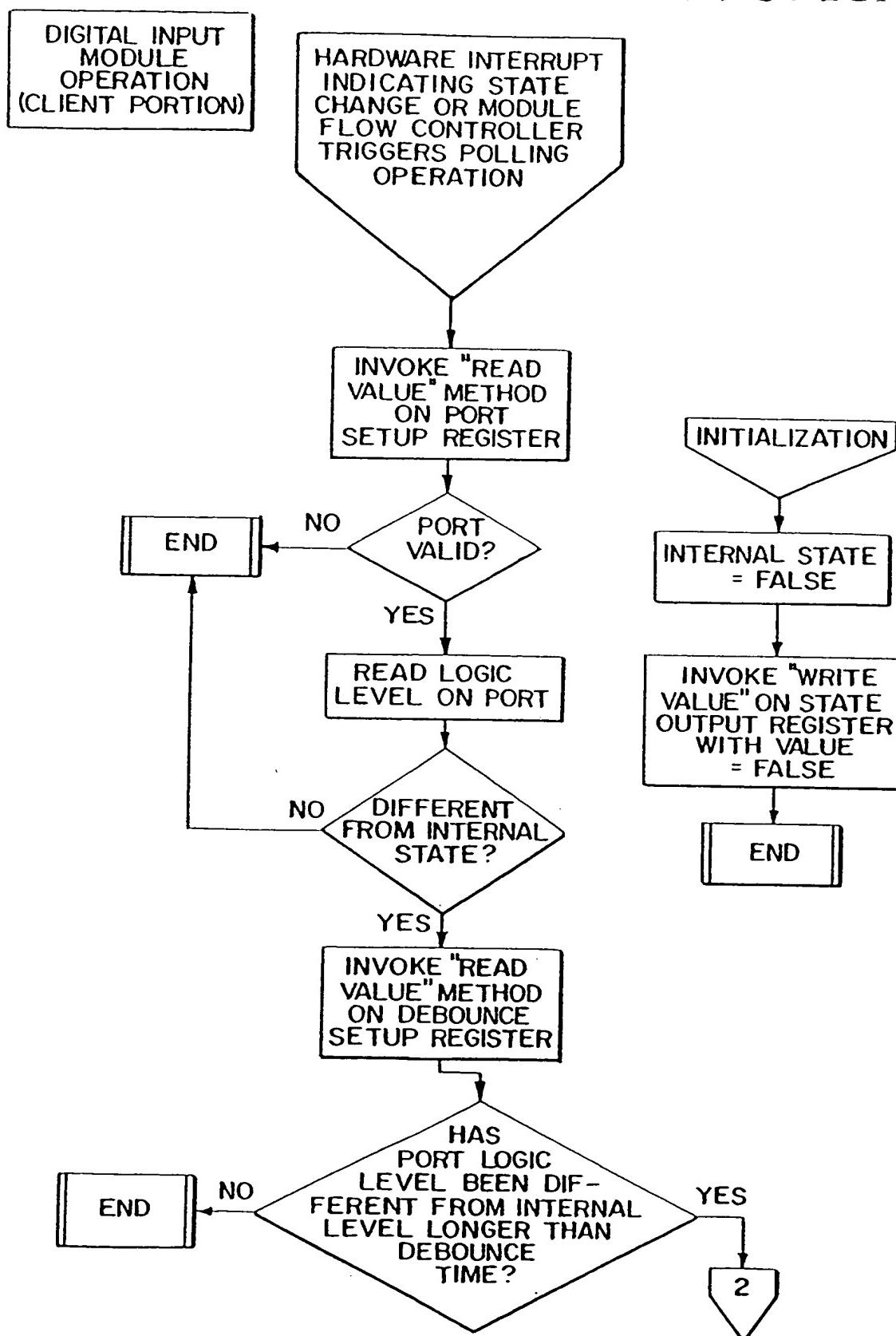


FIG. 15B

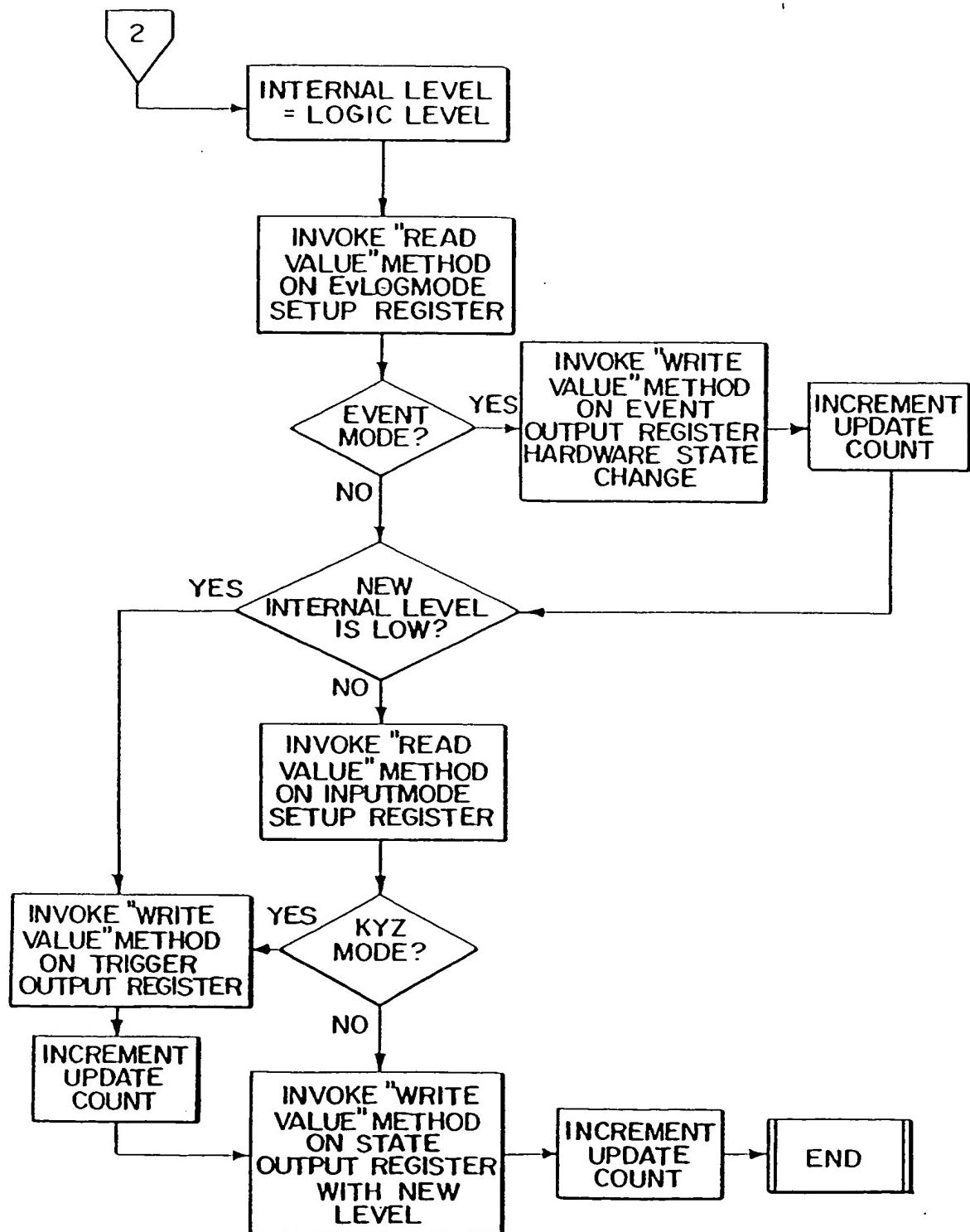


FIG. 16A

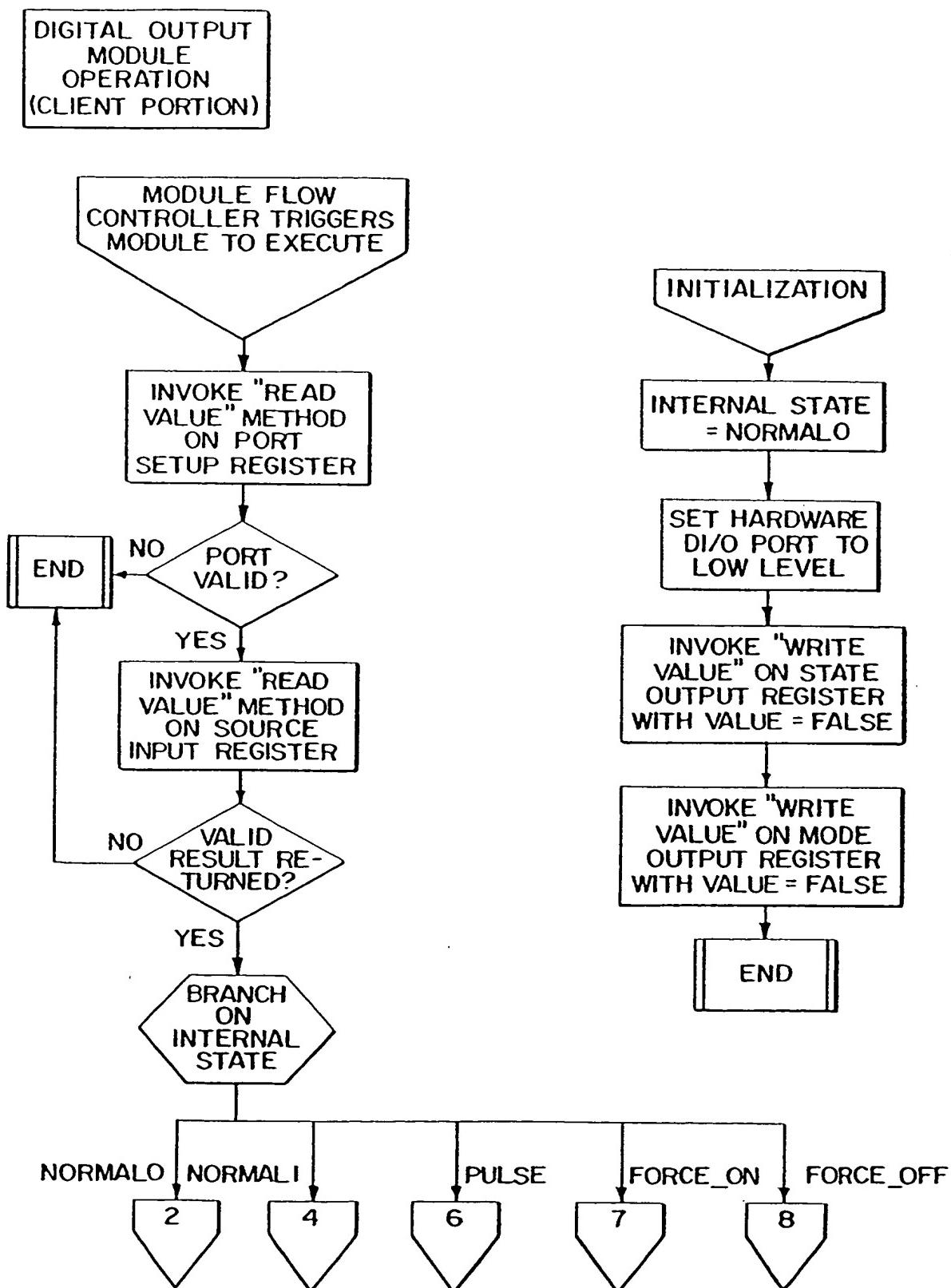
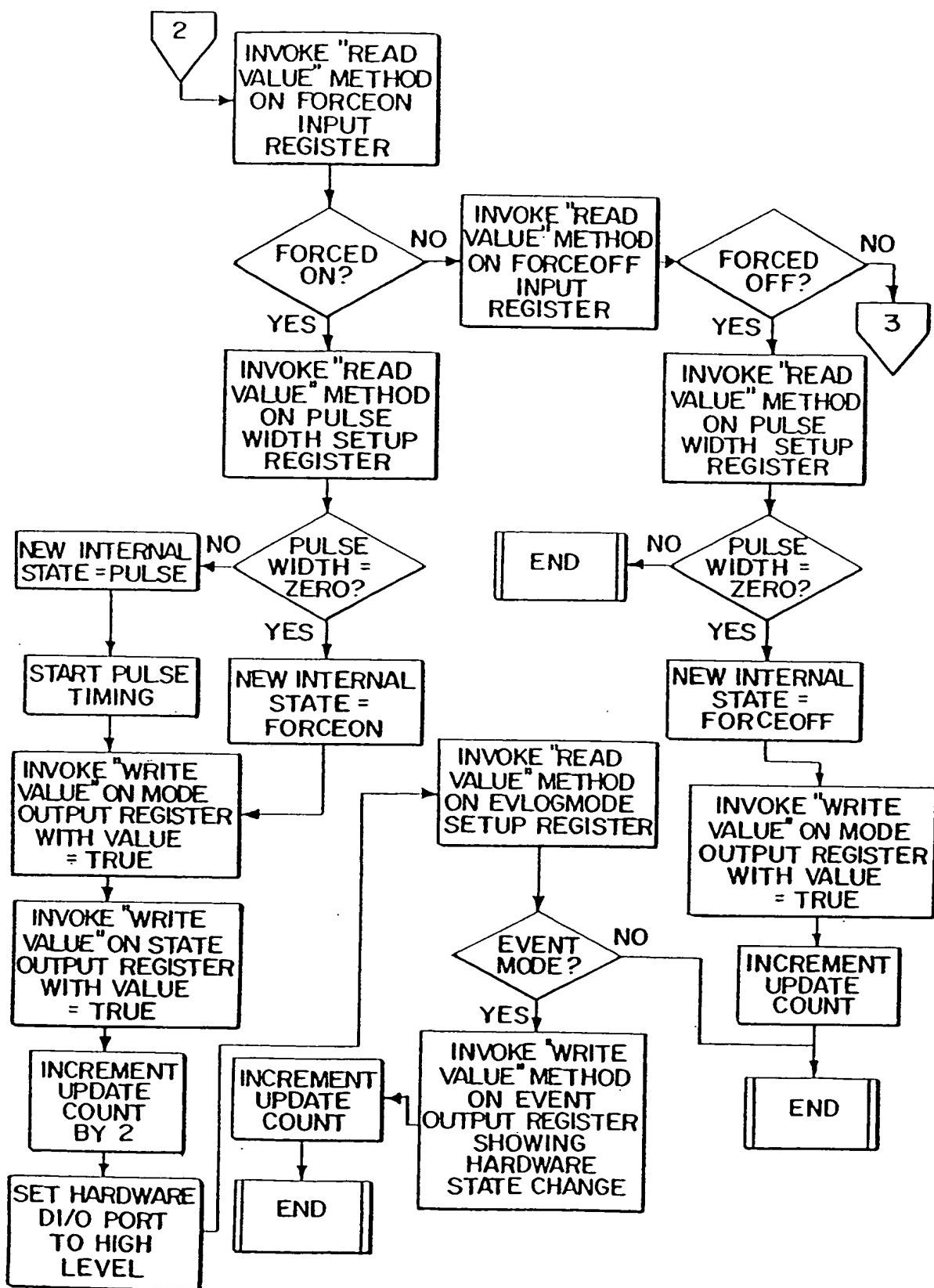


FIG. 16B



31 8 07

FIG. 16C

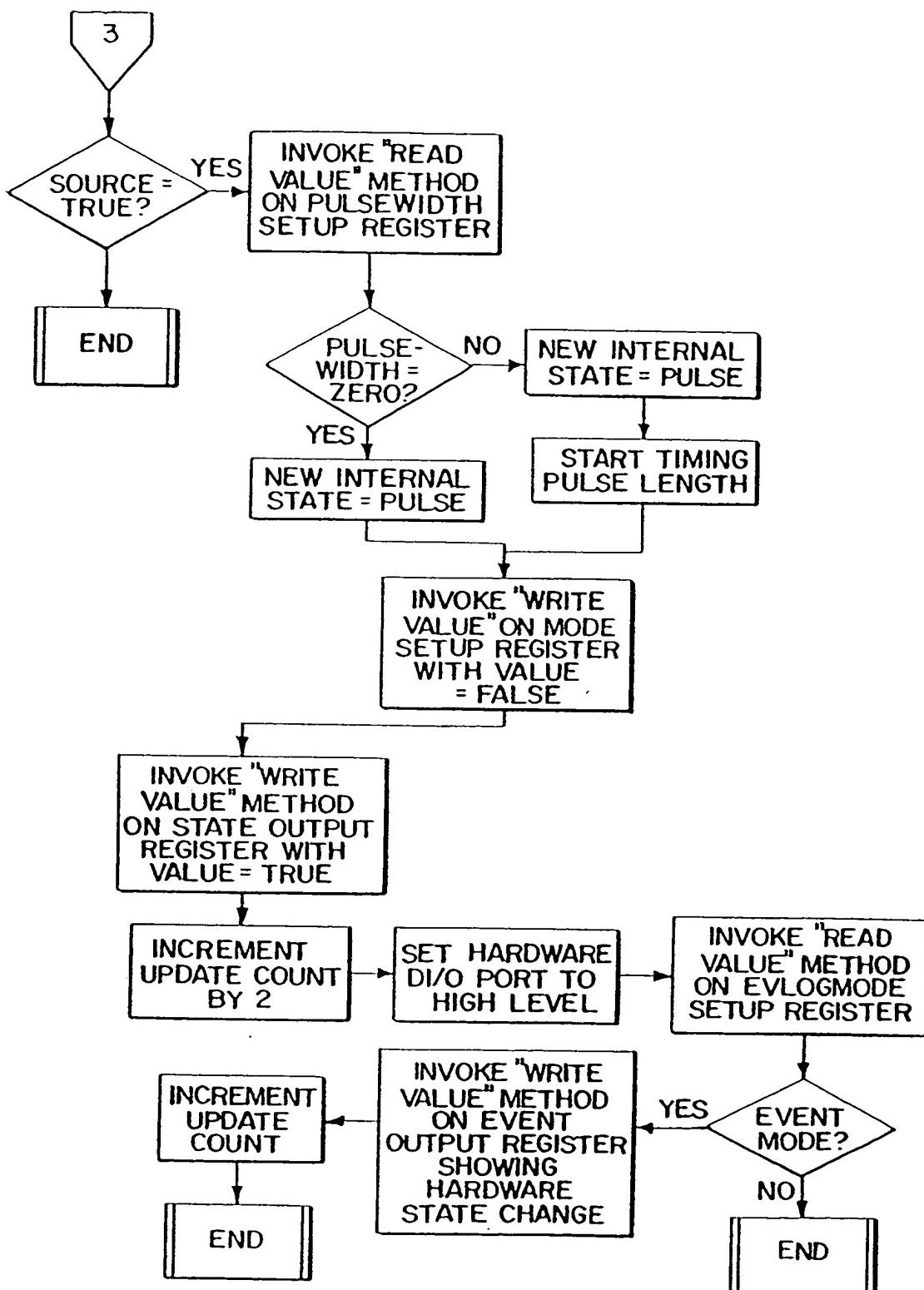


FIG. 16D

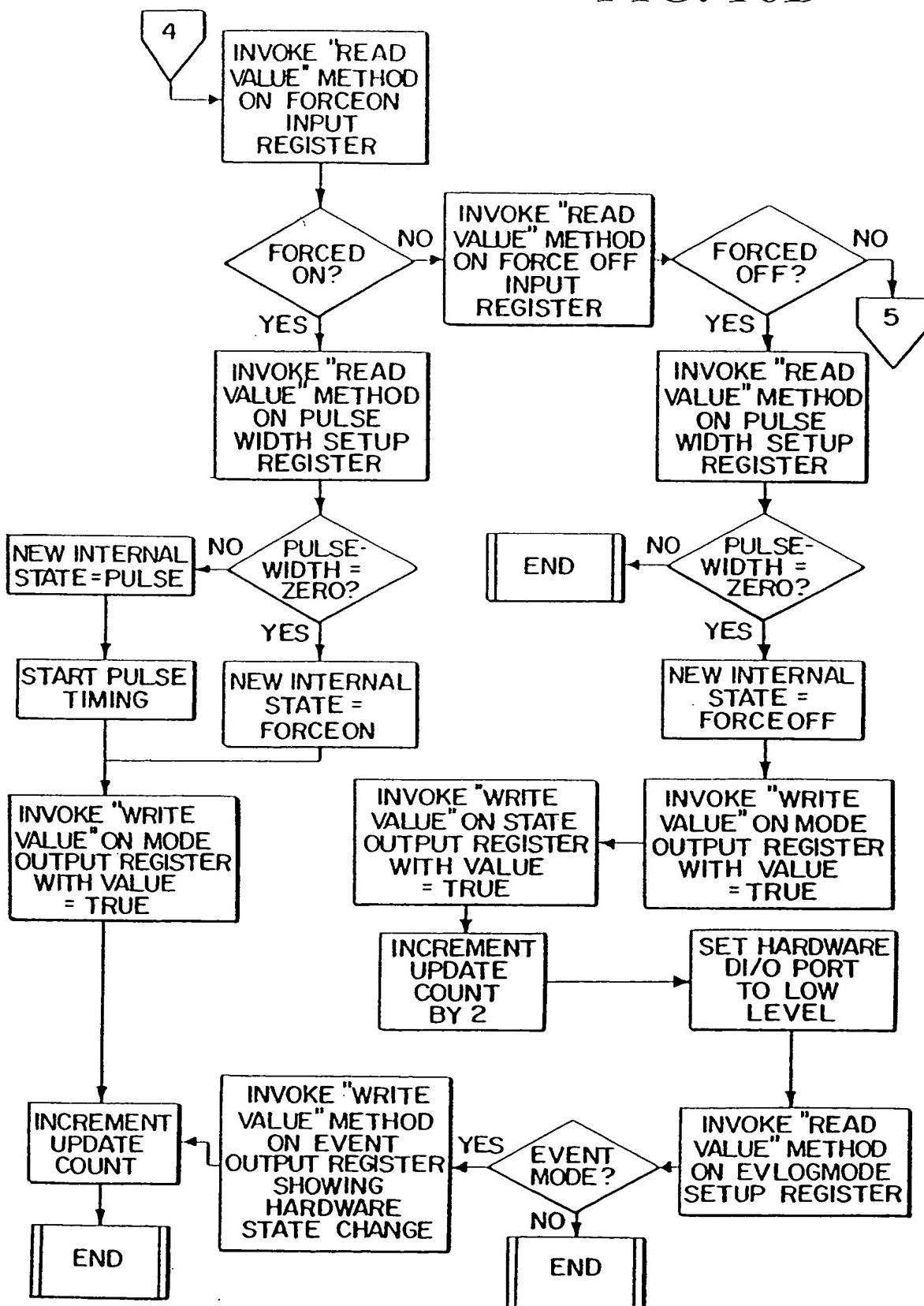


FIG. 16E

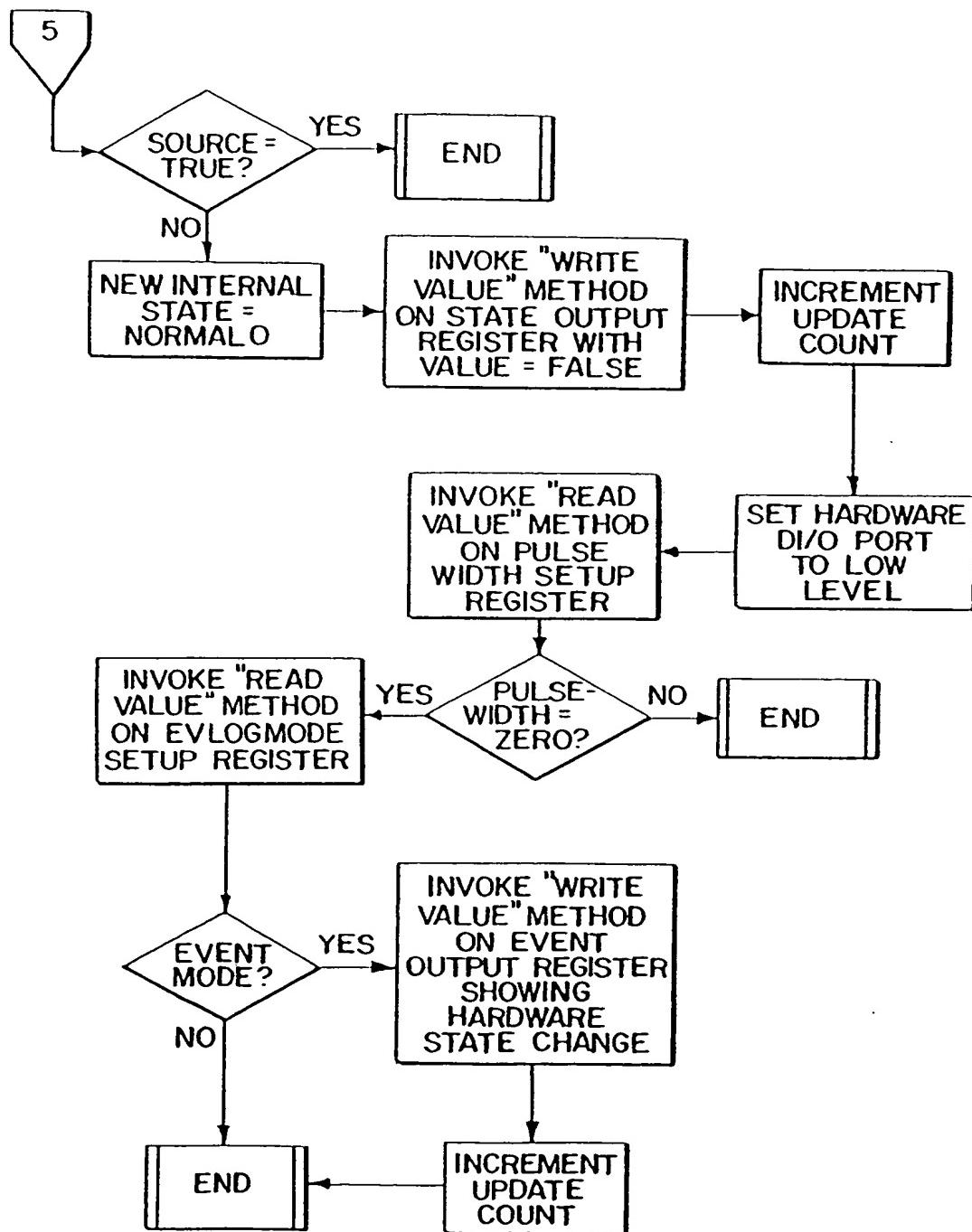


FIG. 16F

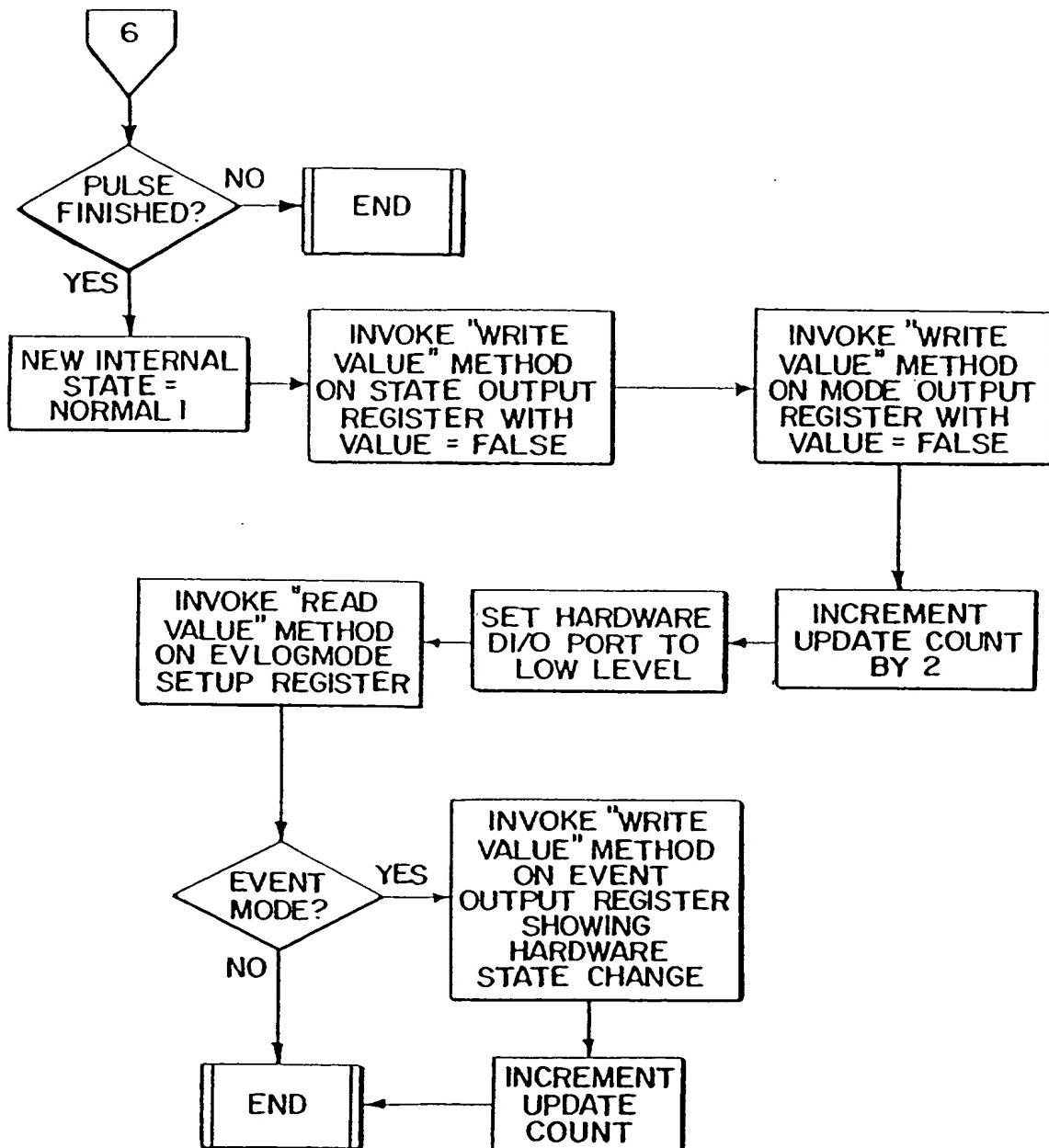


FIG. 16G

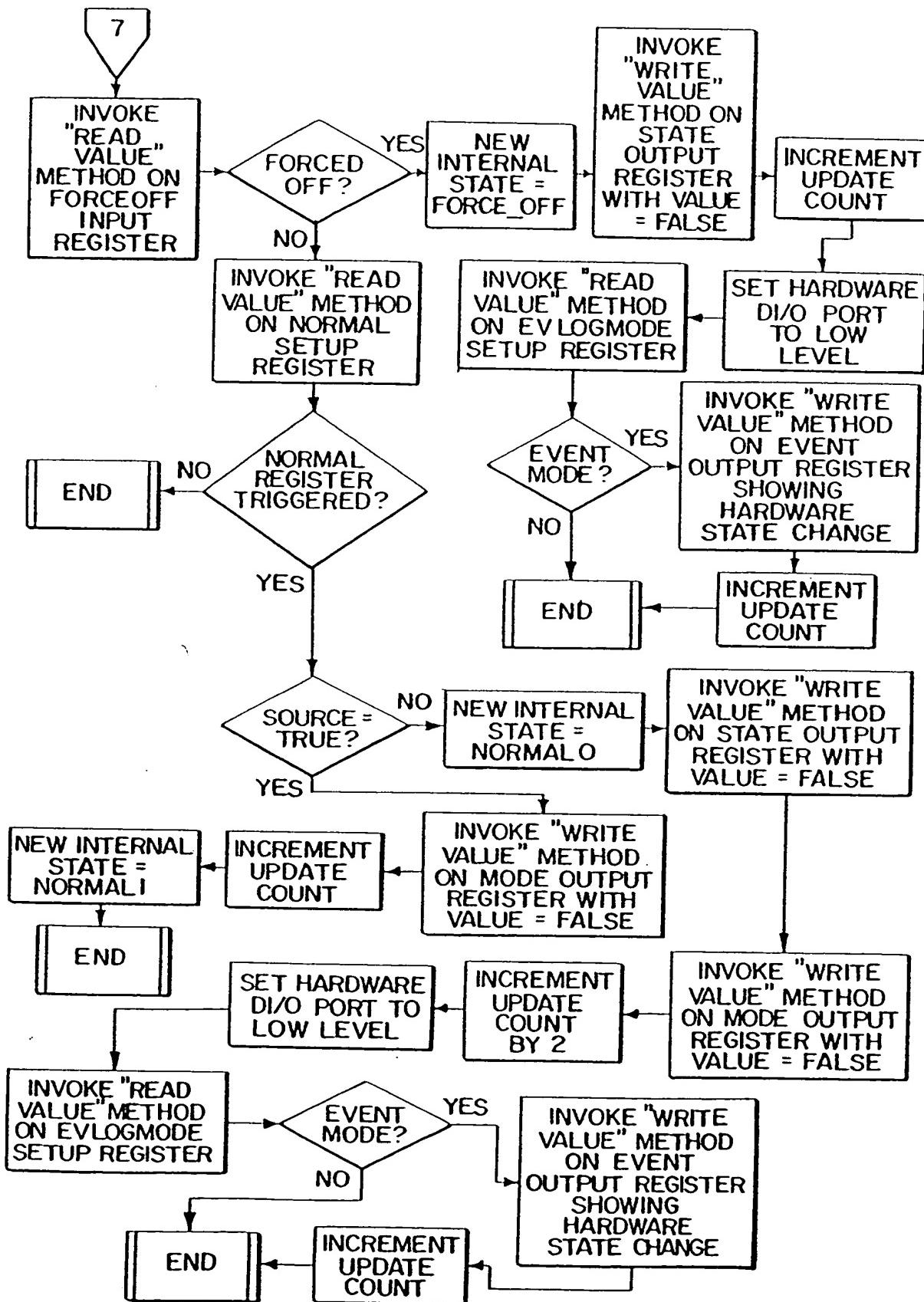


FIG. 16H

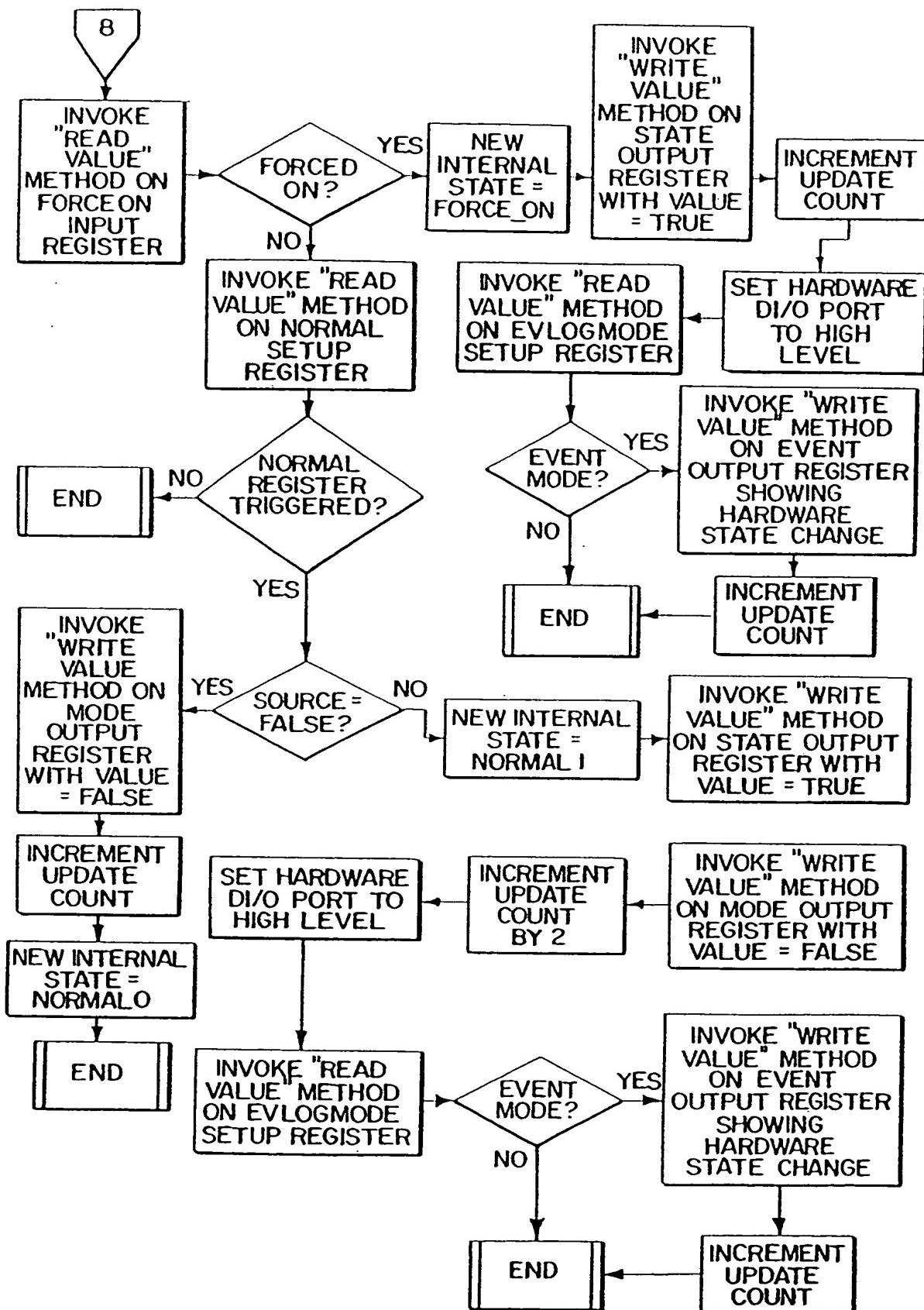


FIG. 17

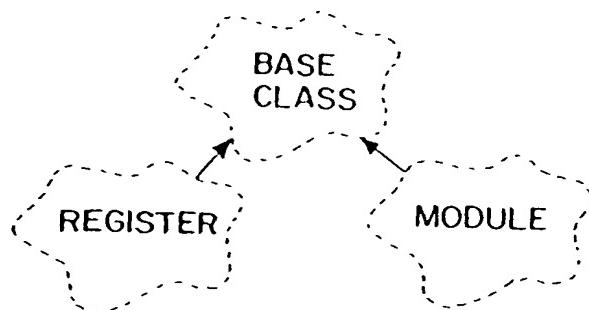


FIG. 17A

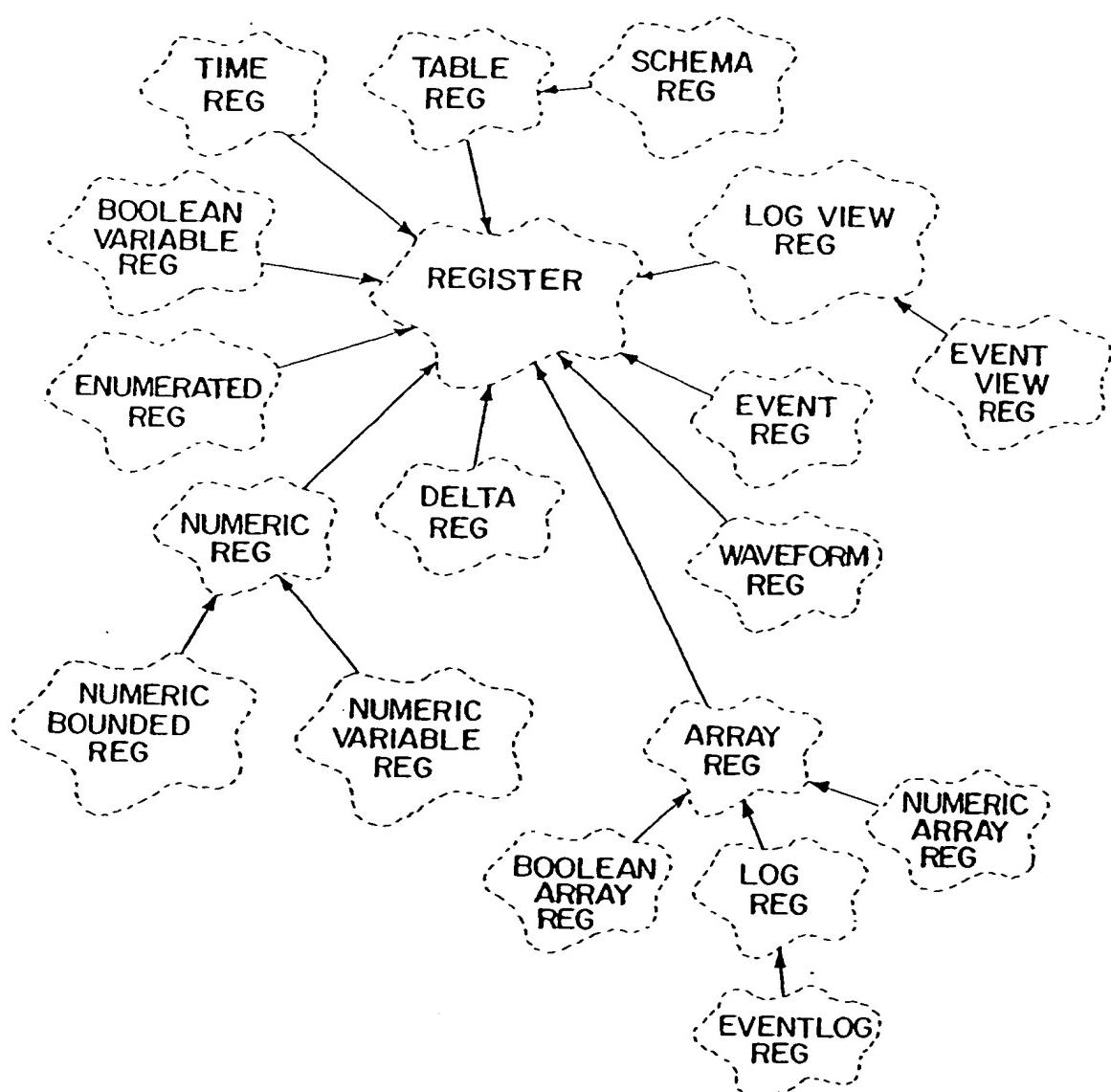


FIG. 17B

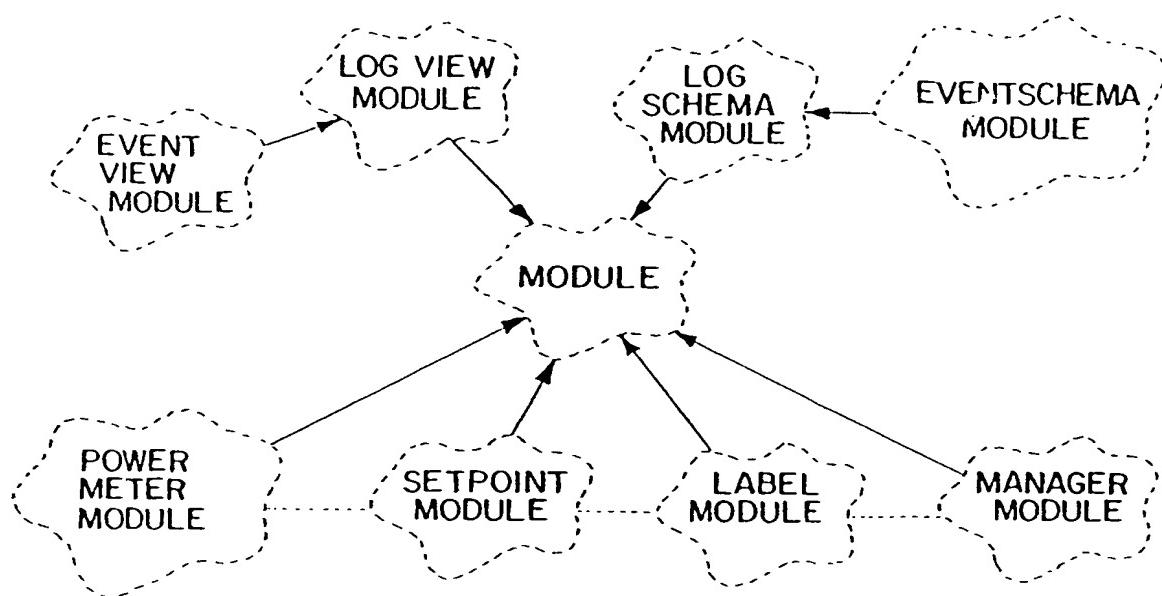
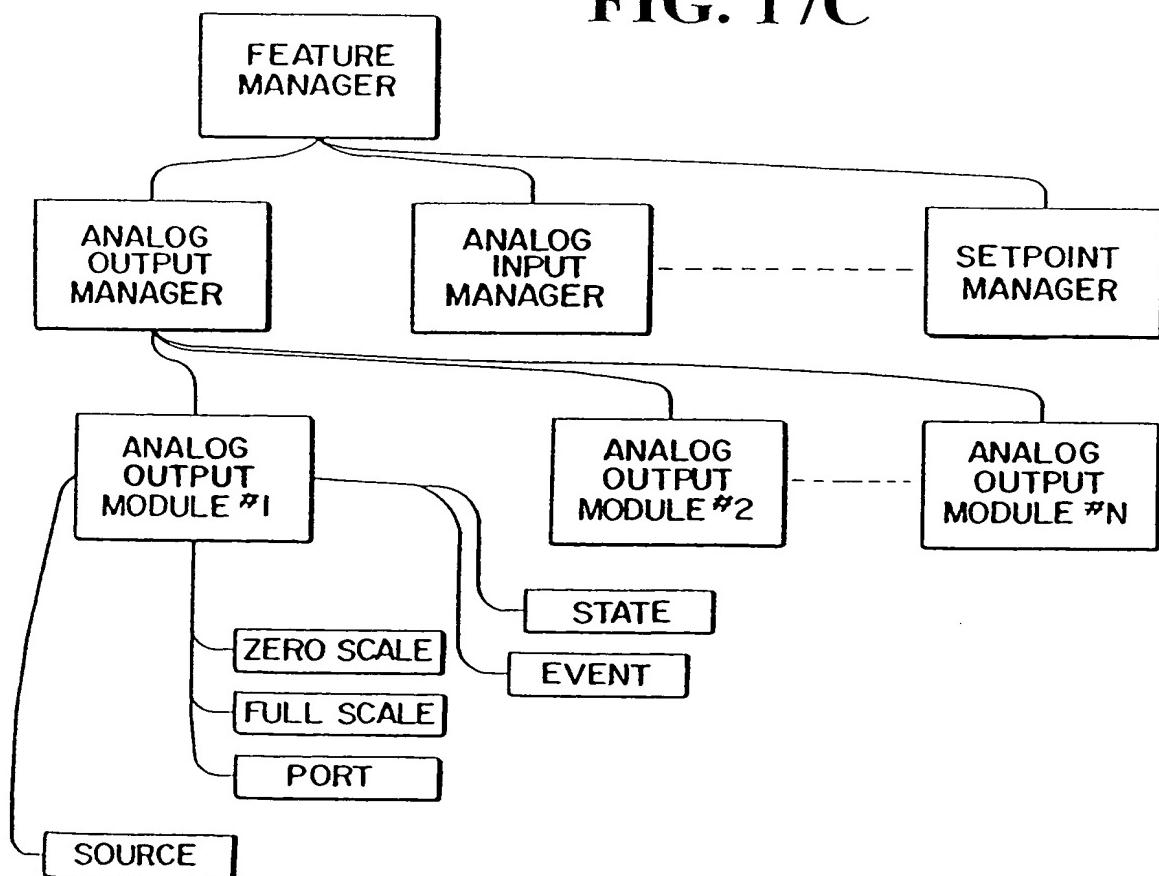


FIG. 17C



39 6 307

FIG. 18

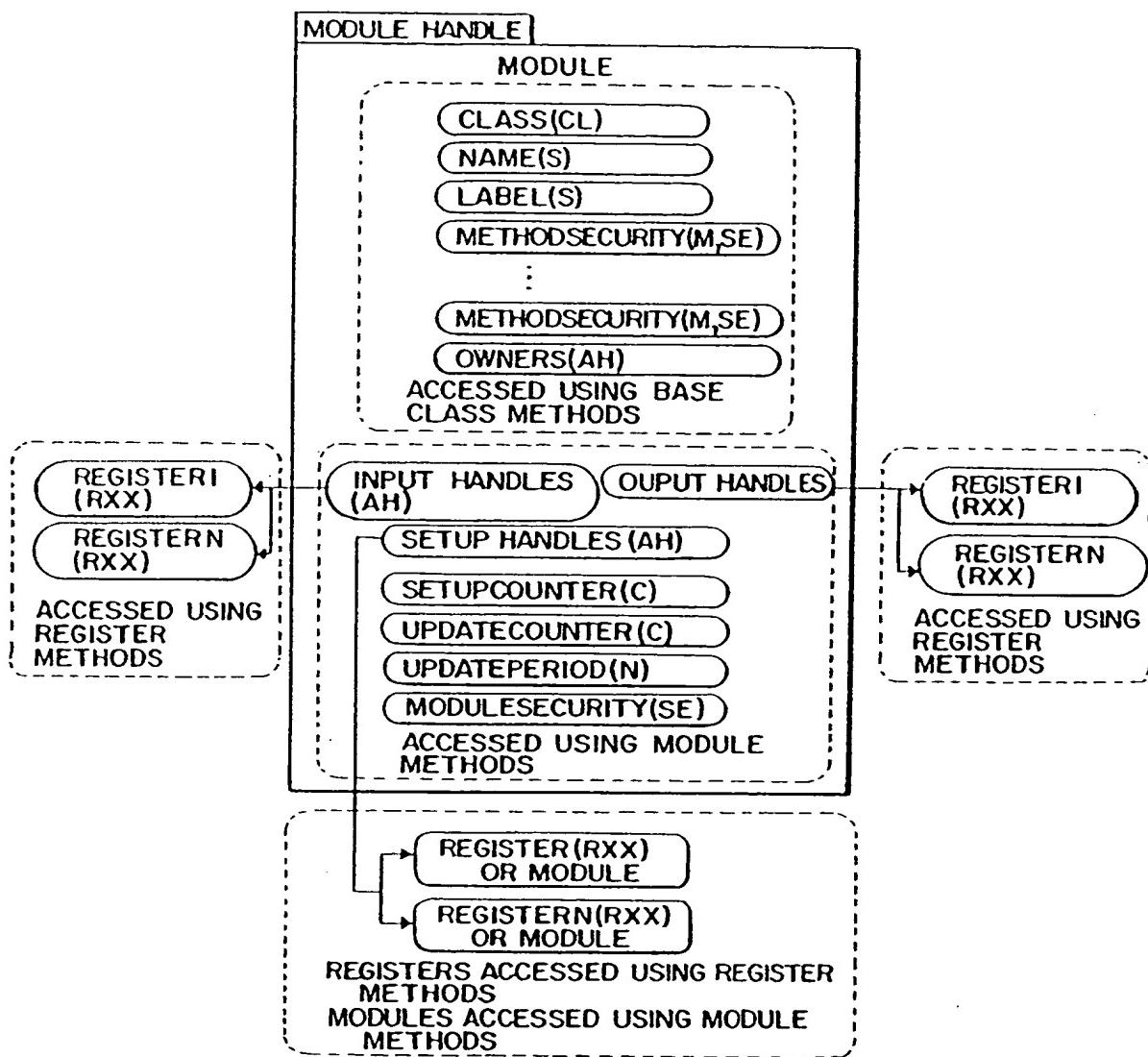


FIG. 19

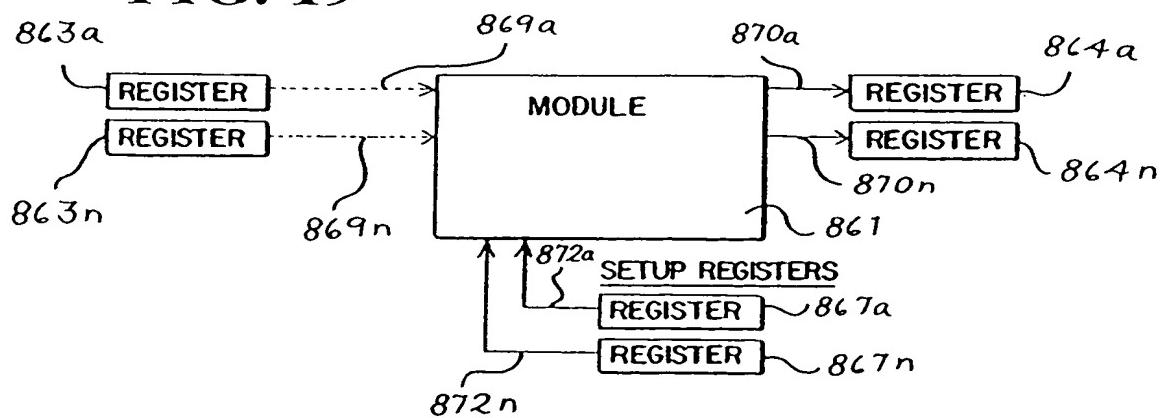


FIG. 19A

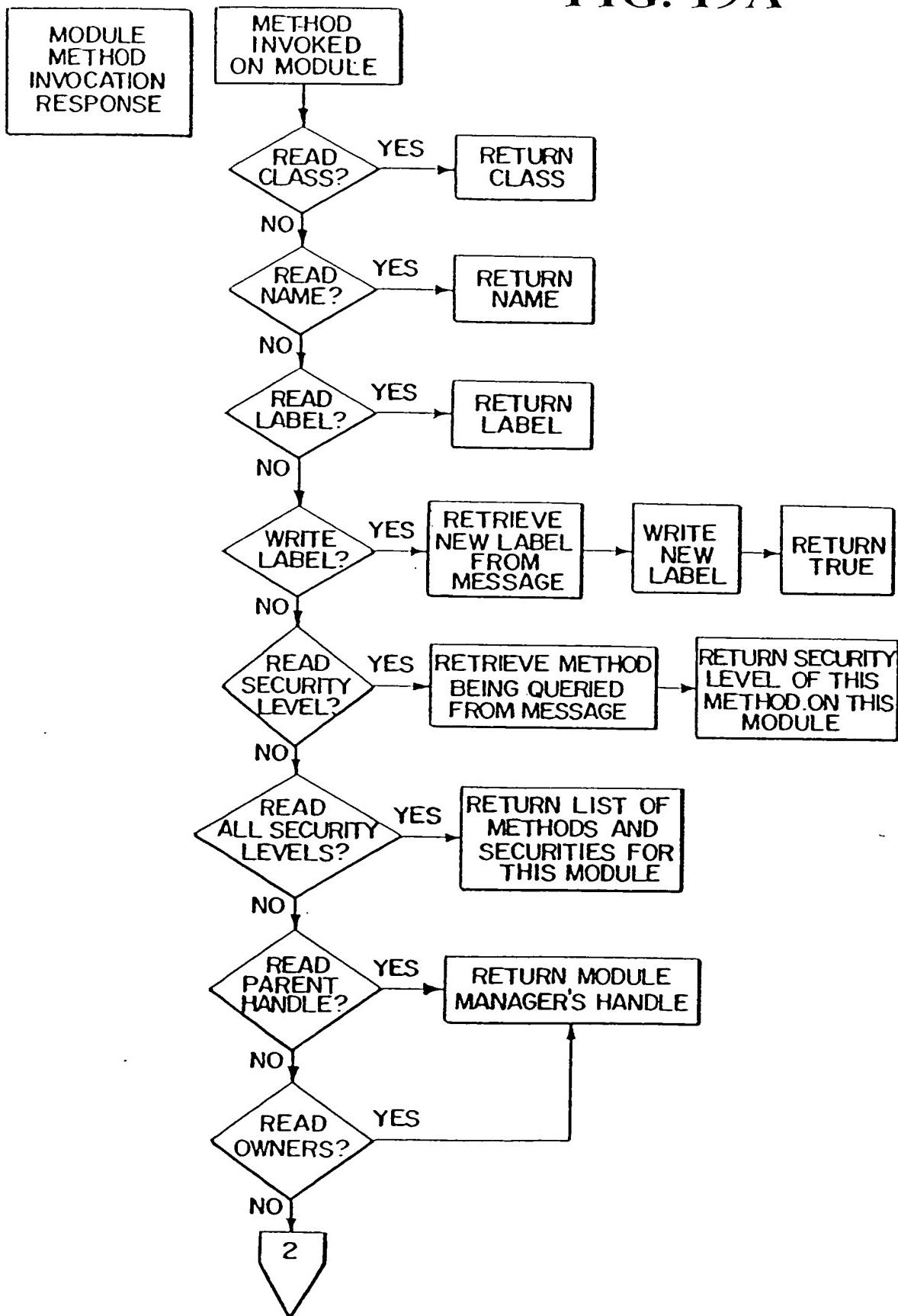


FIG. 19B

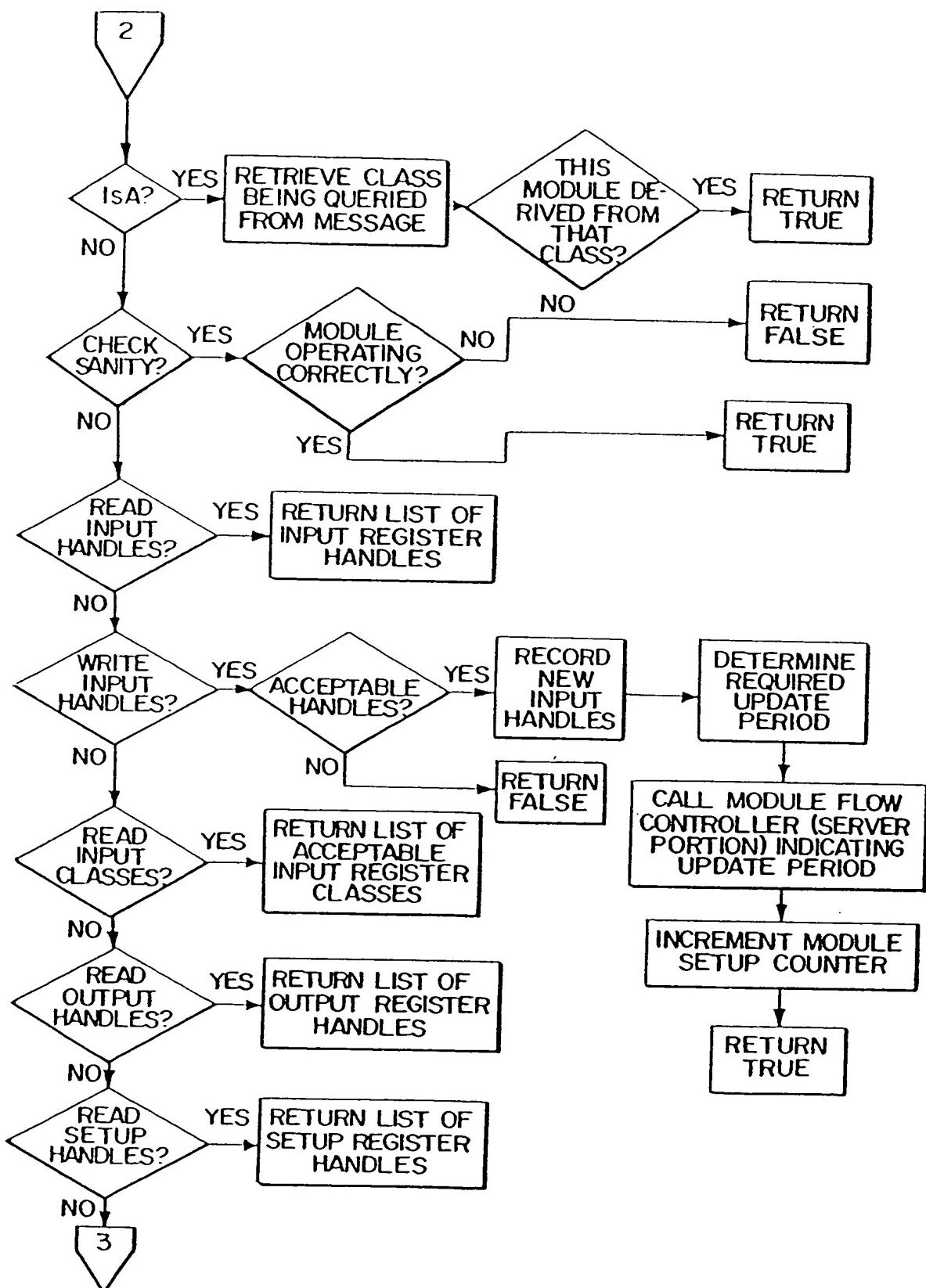


FIG. 19C

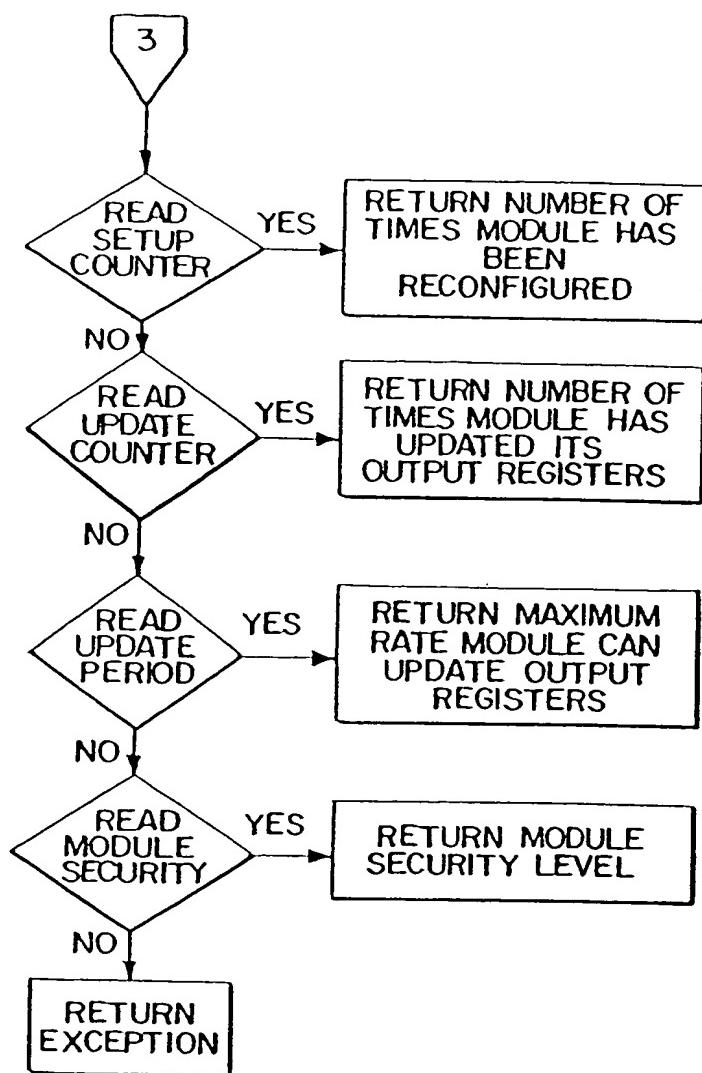


FIG. 20

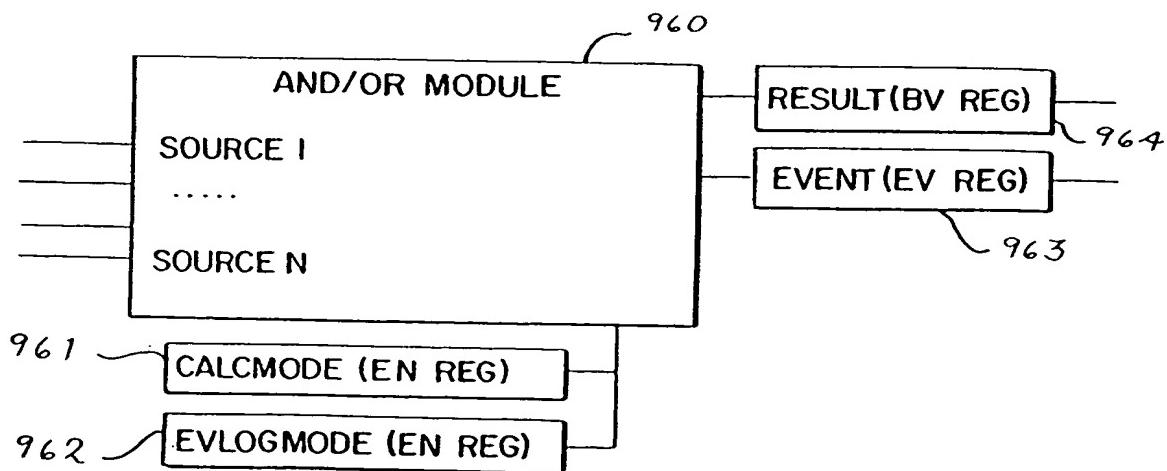


FIG. 20A

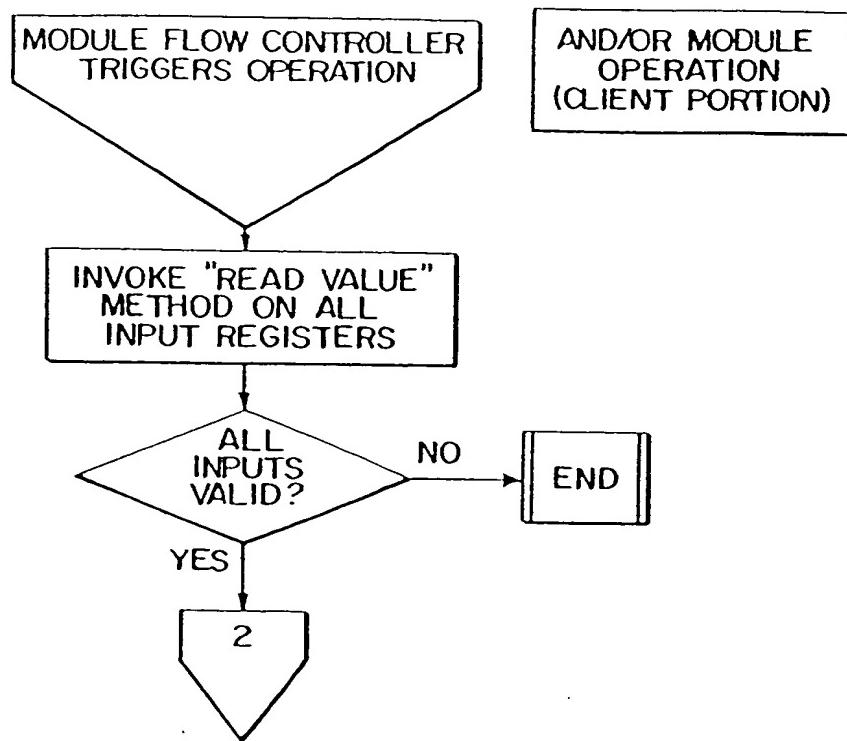


FIG. 21

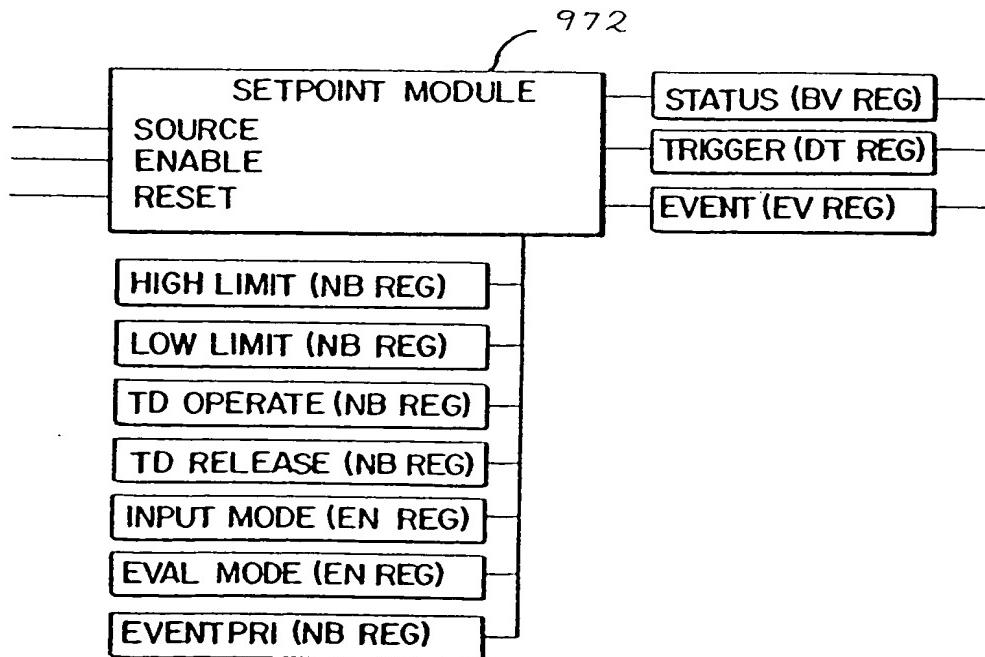


FIG. 20B

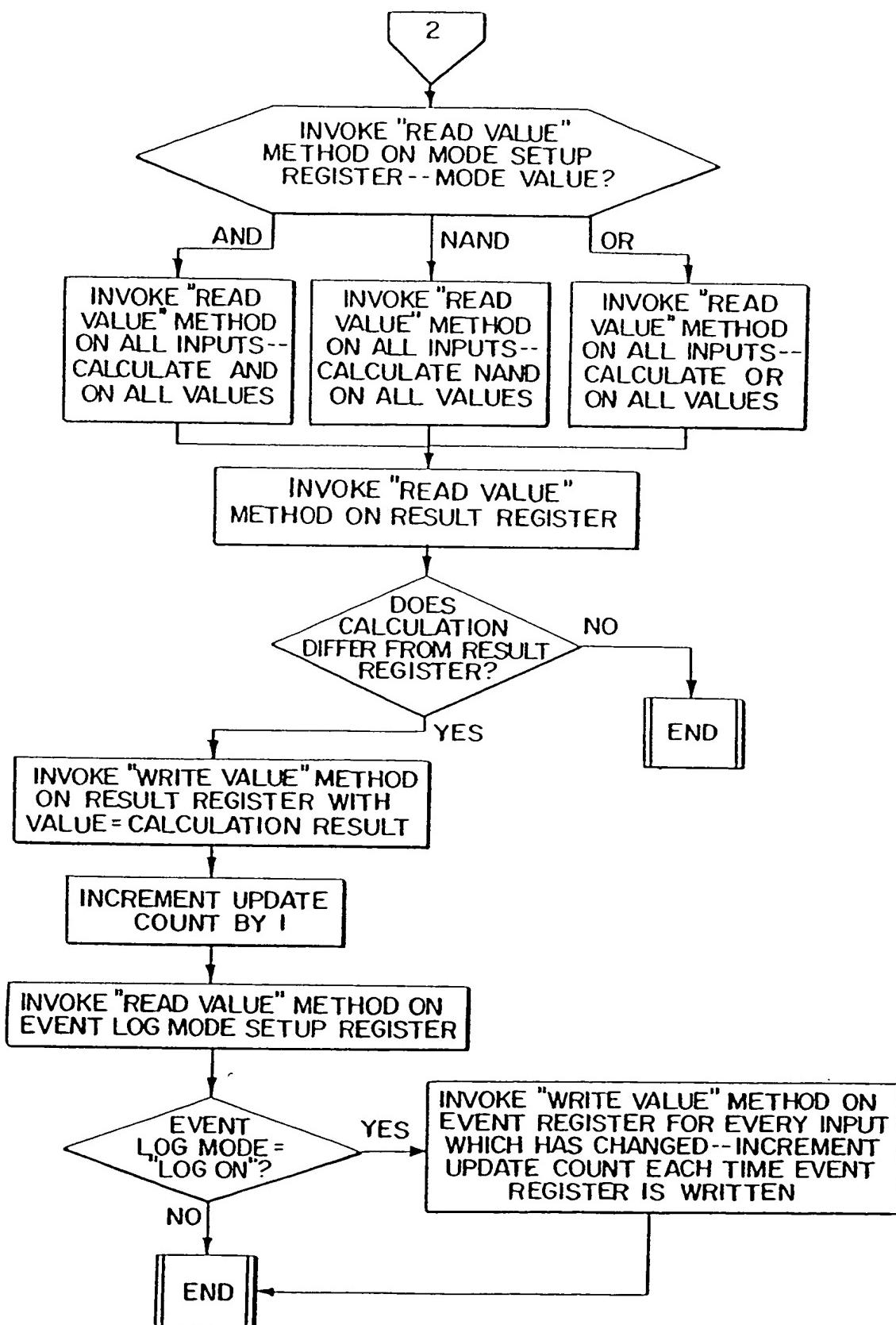


FIG. 21A

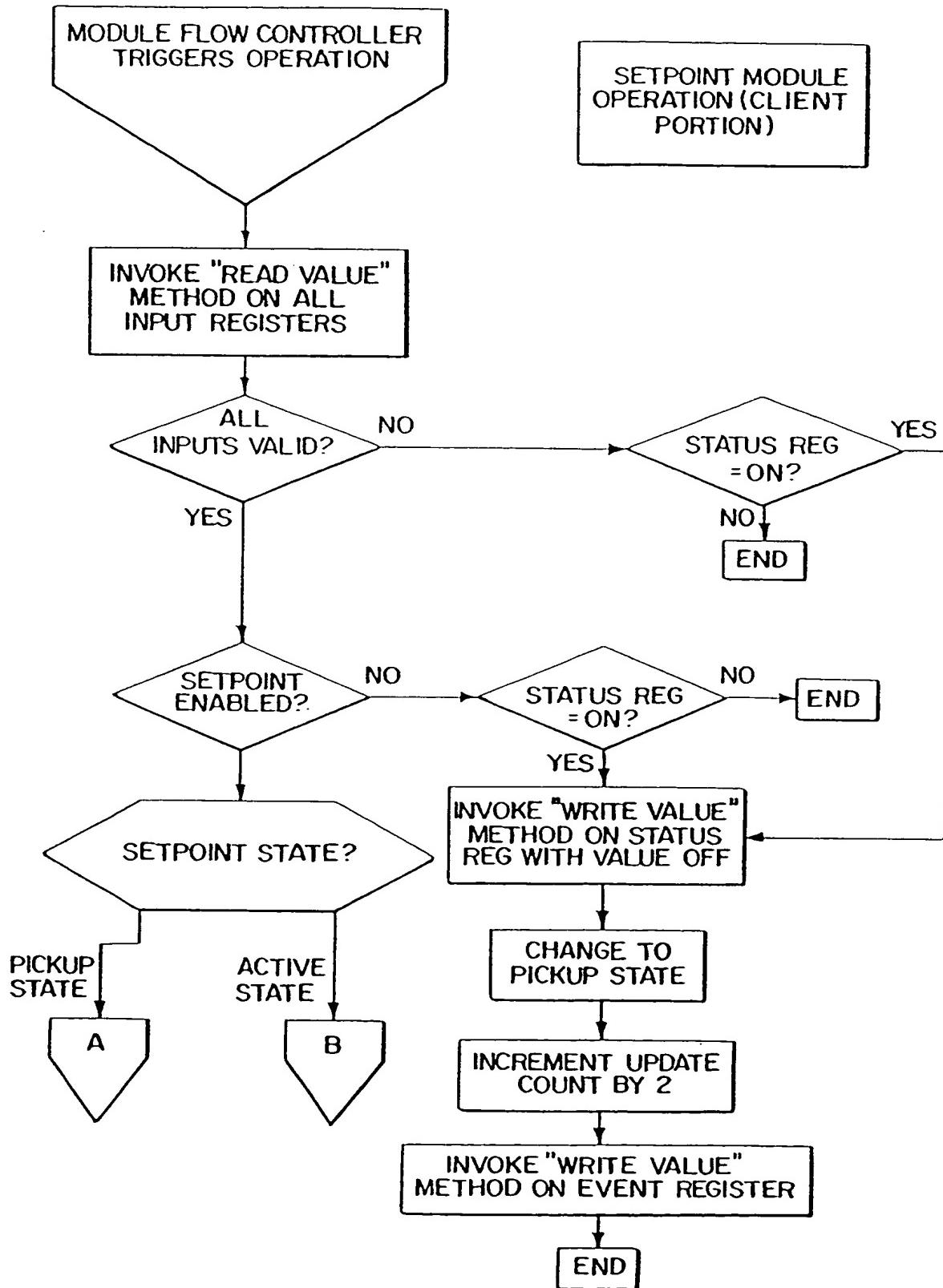


FIG. 21B

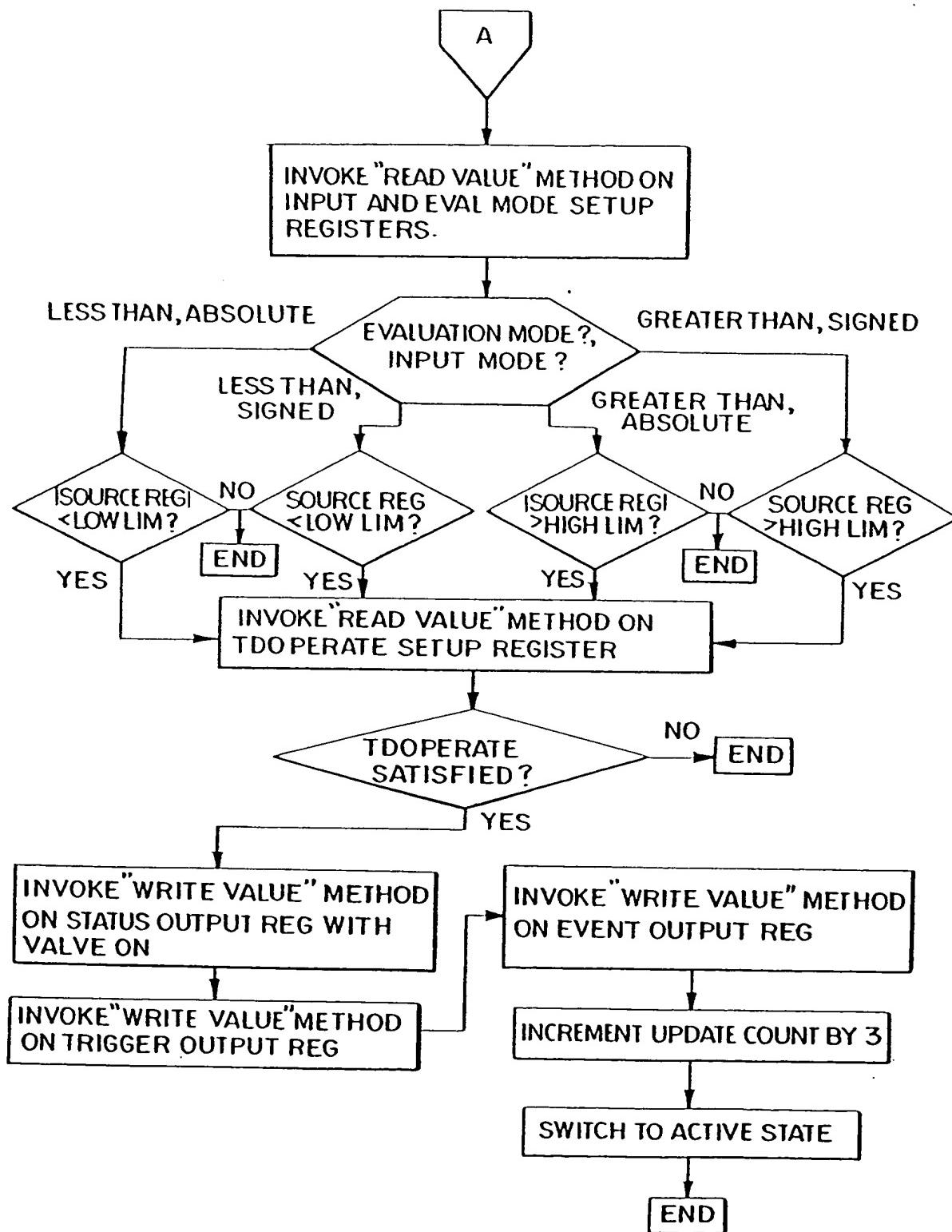
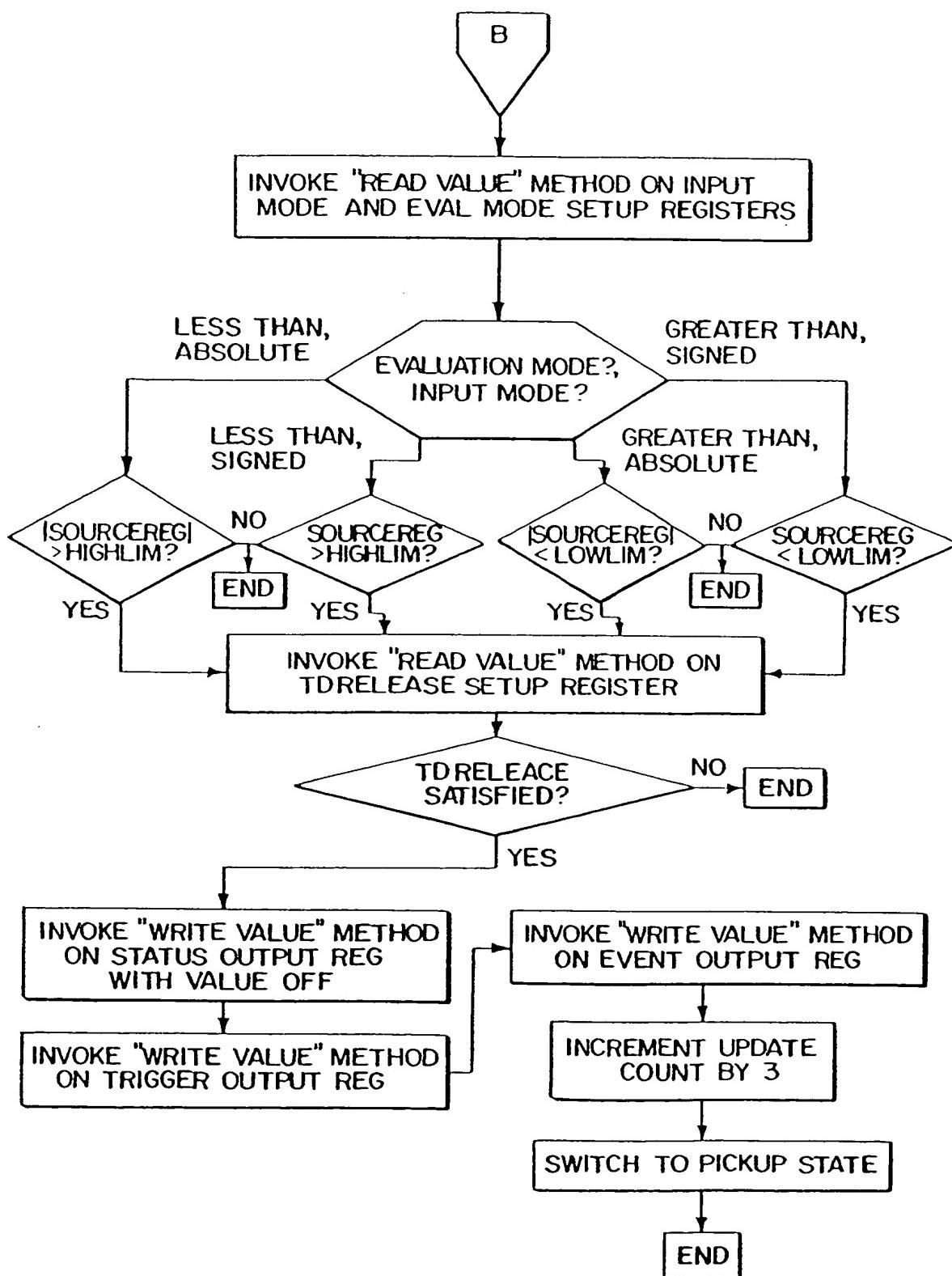


FIG. 21C



Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No.: 627076

46 207

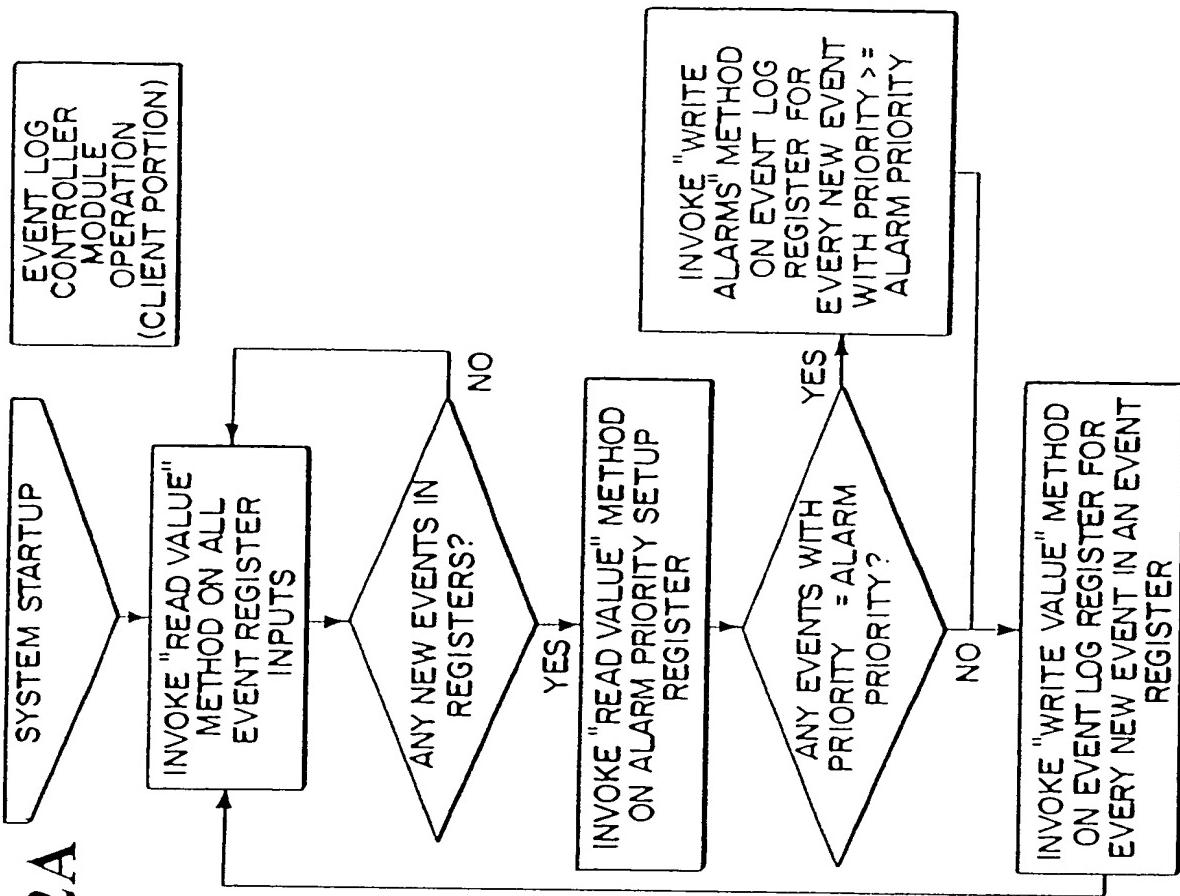
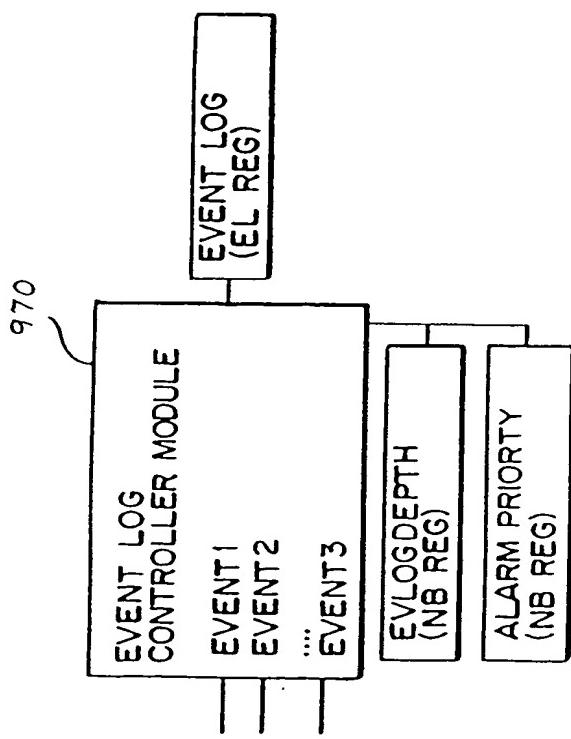


FIG. 22



Patent Application For: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No.: 6270/16

44 66 307

FIG. 23

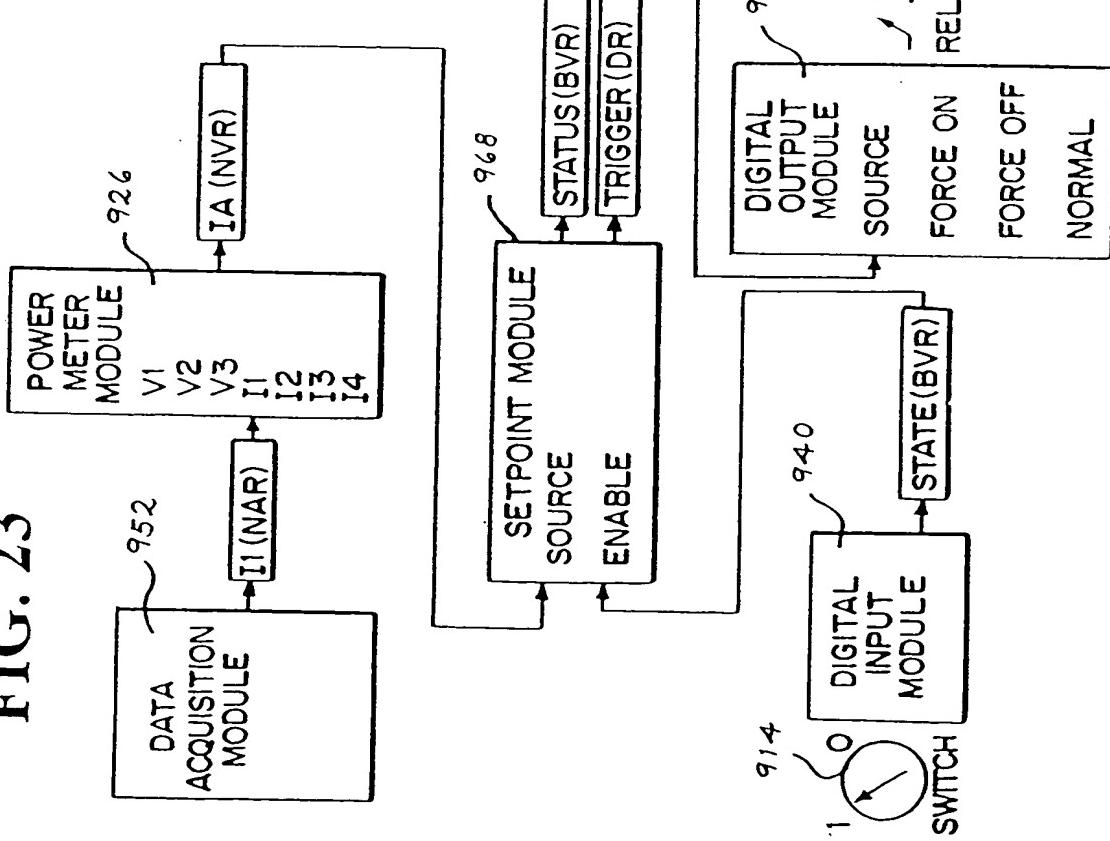


FIG. 24A

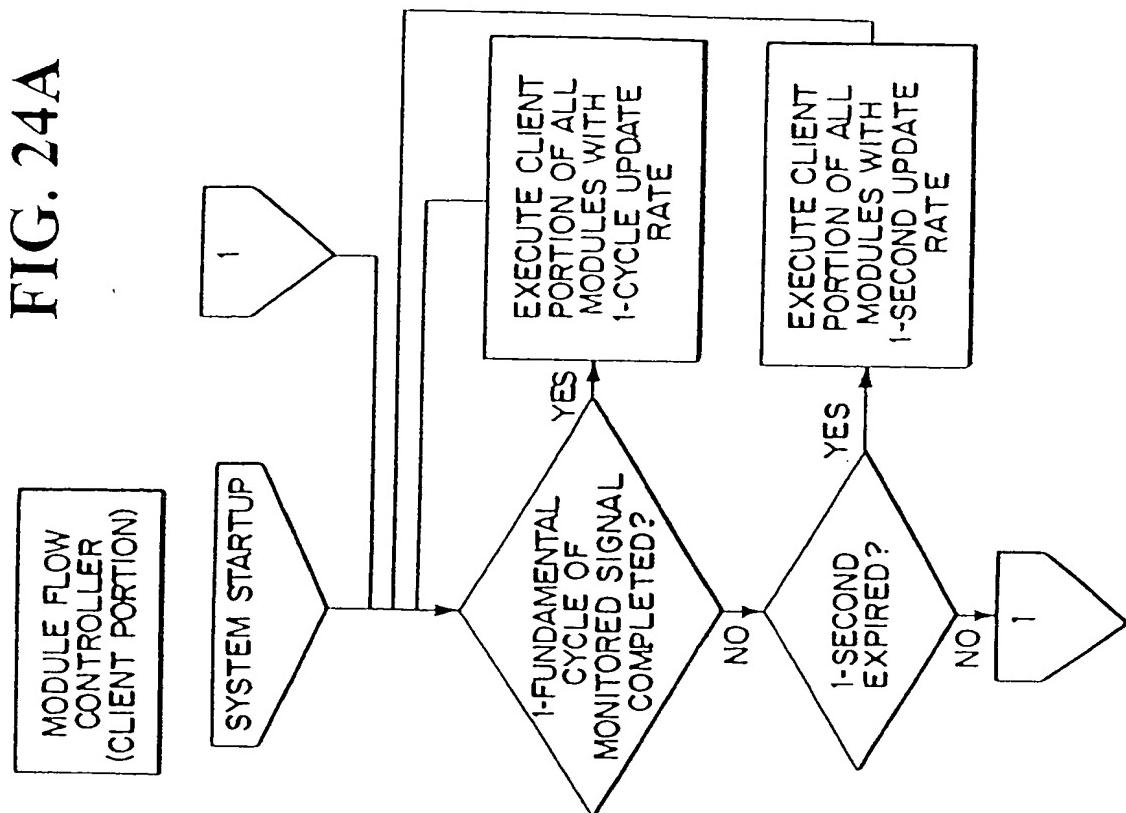


FIG. 25

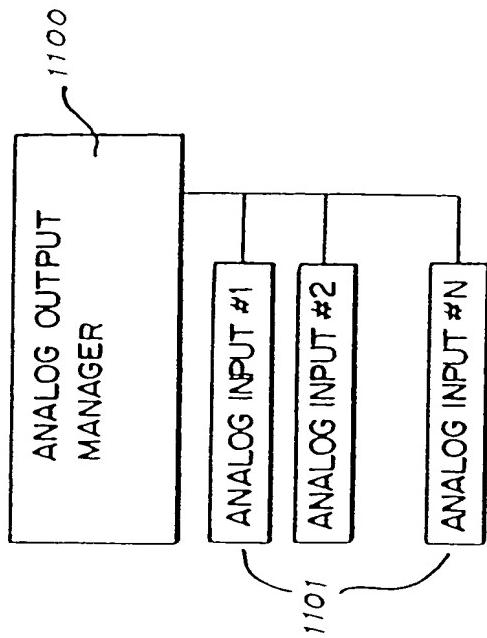


FIG. 24B

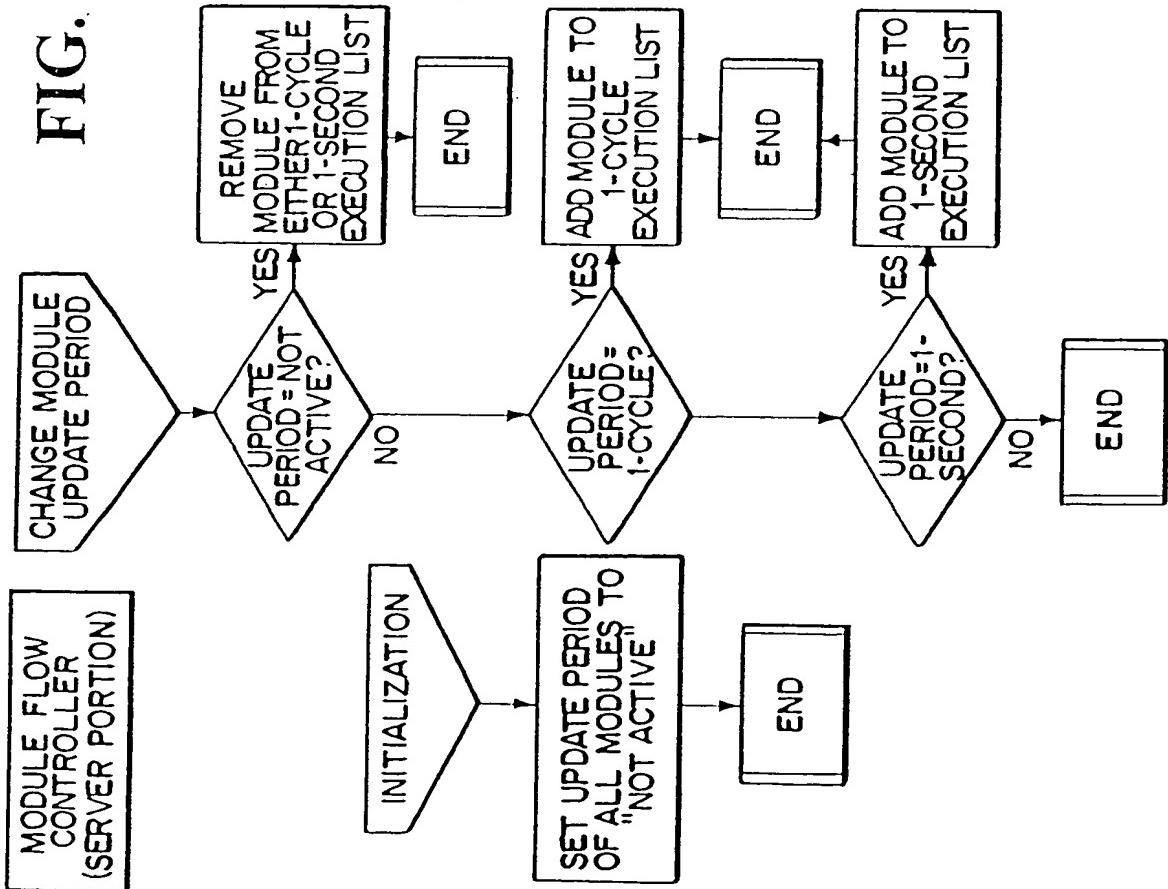


FIG. 25A

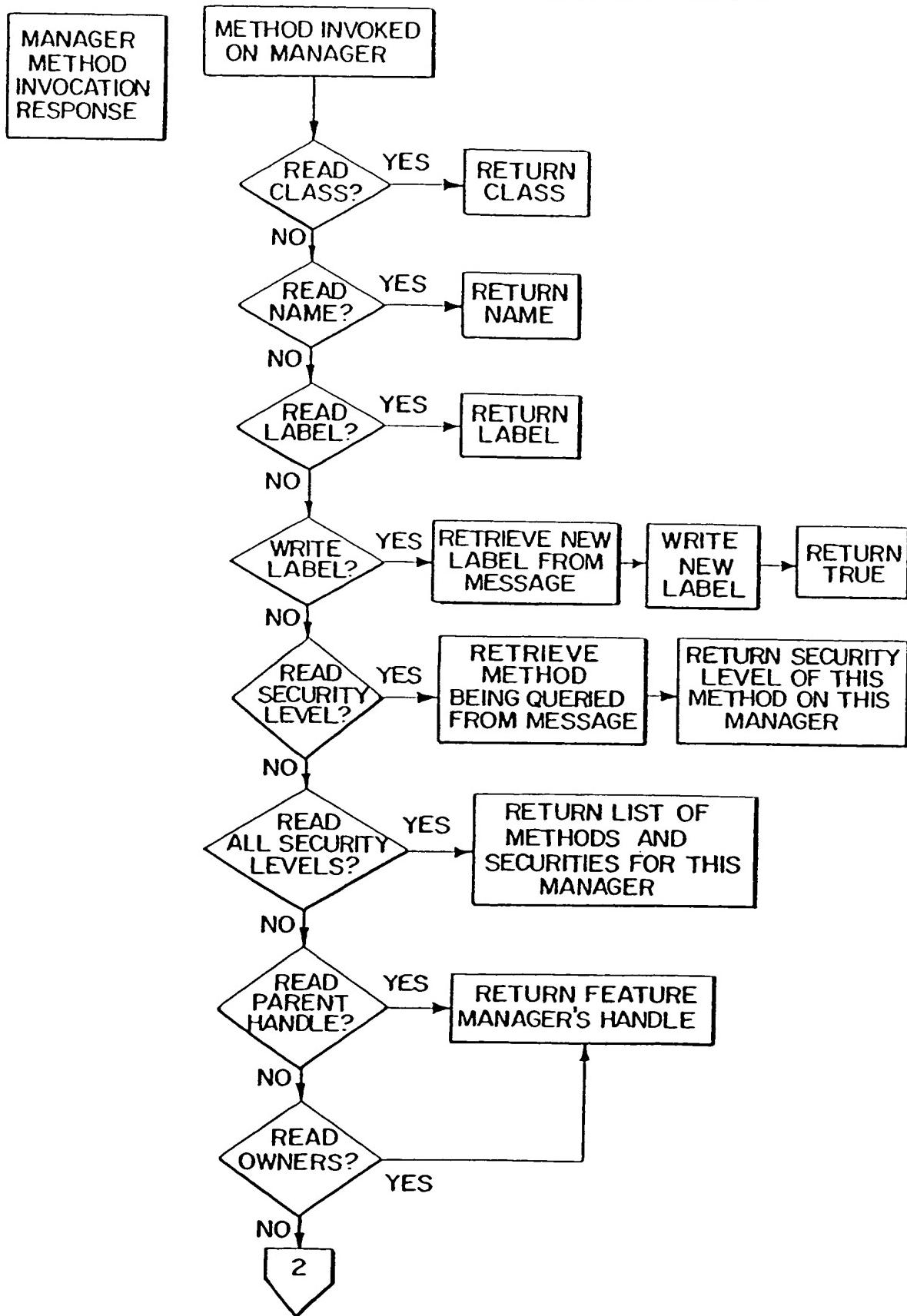


FIG. 26

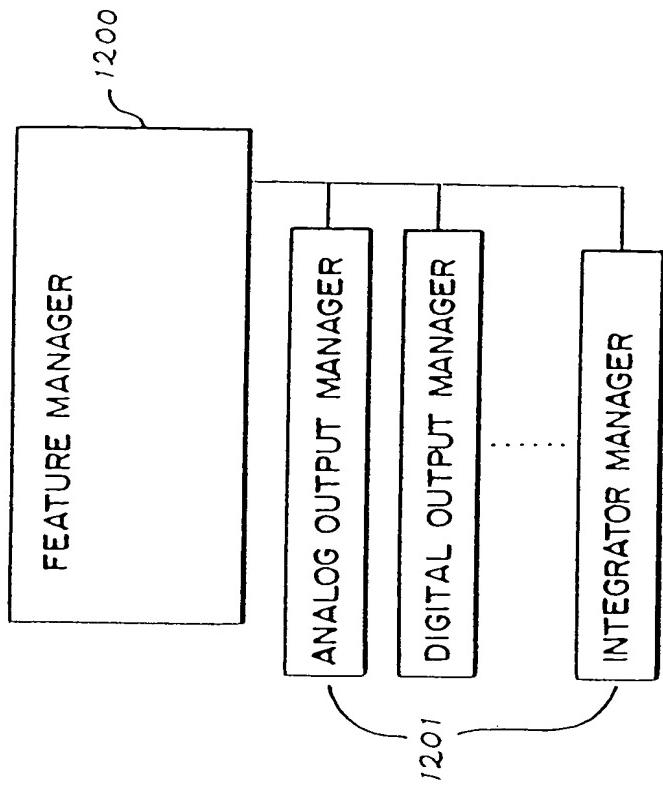


FIG. 25B

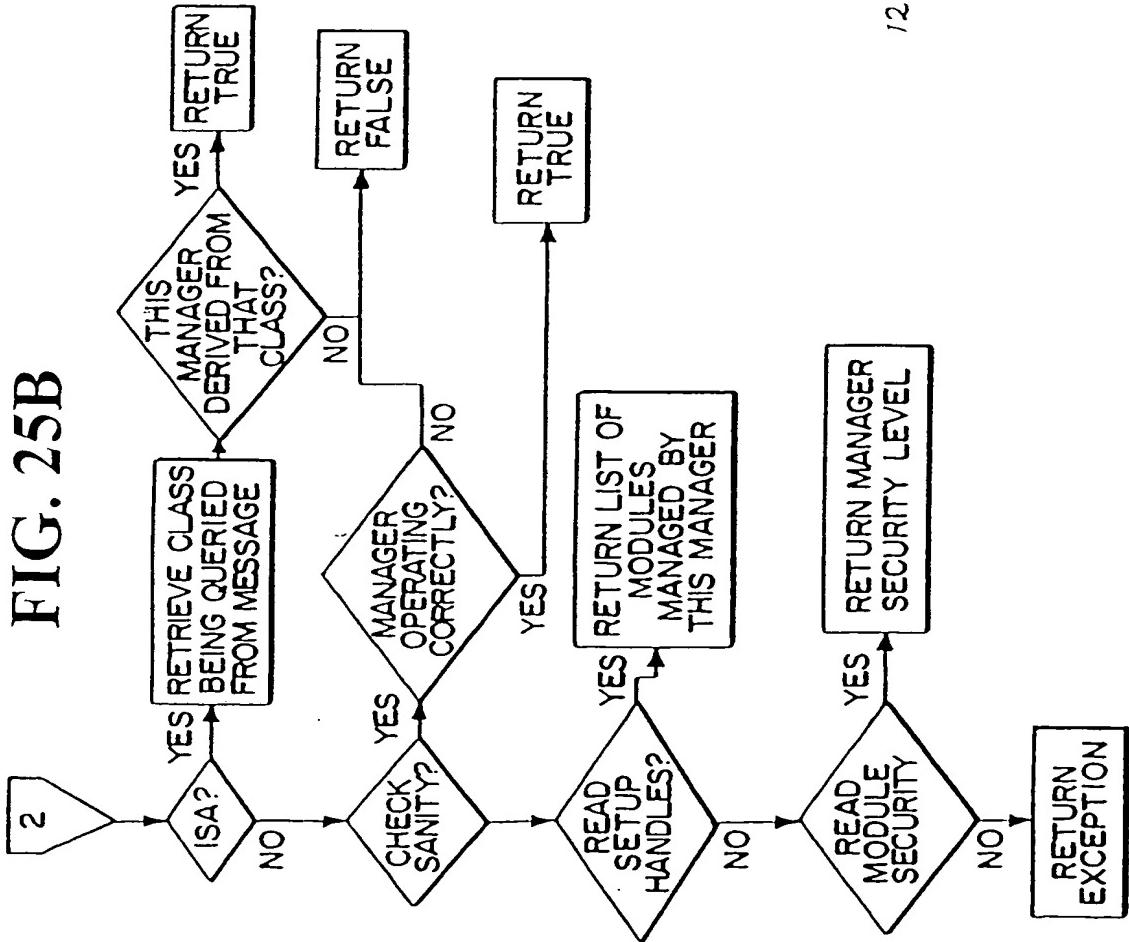


FIG. 26A

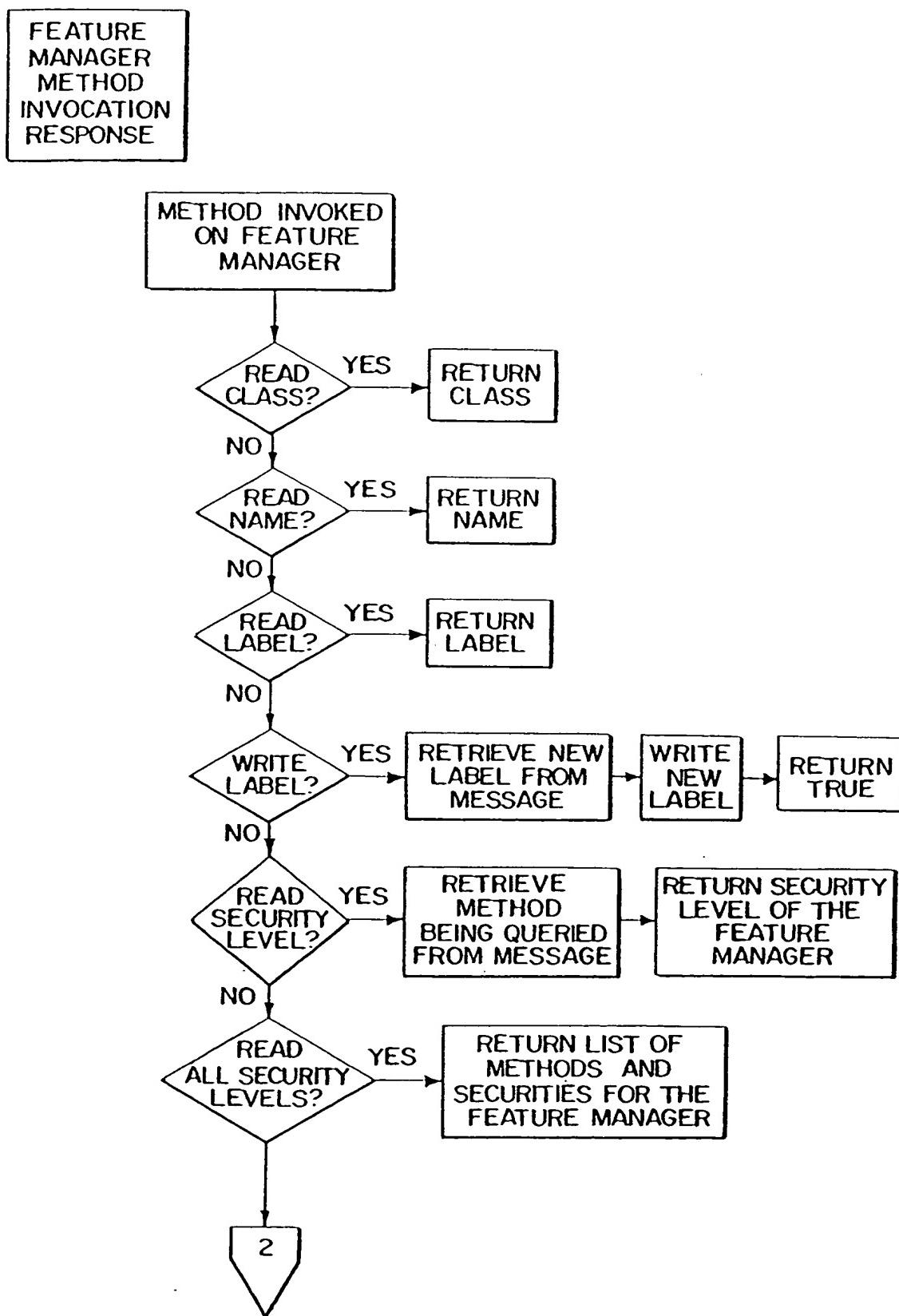
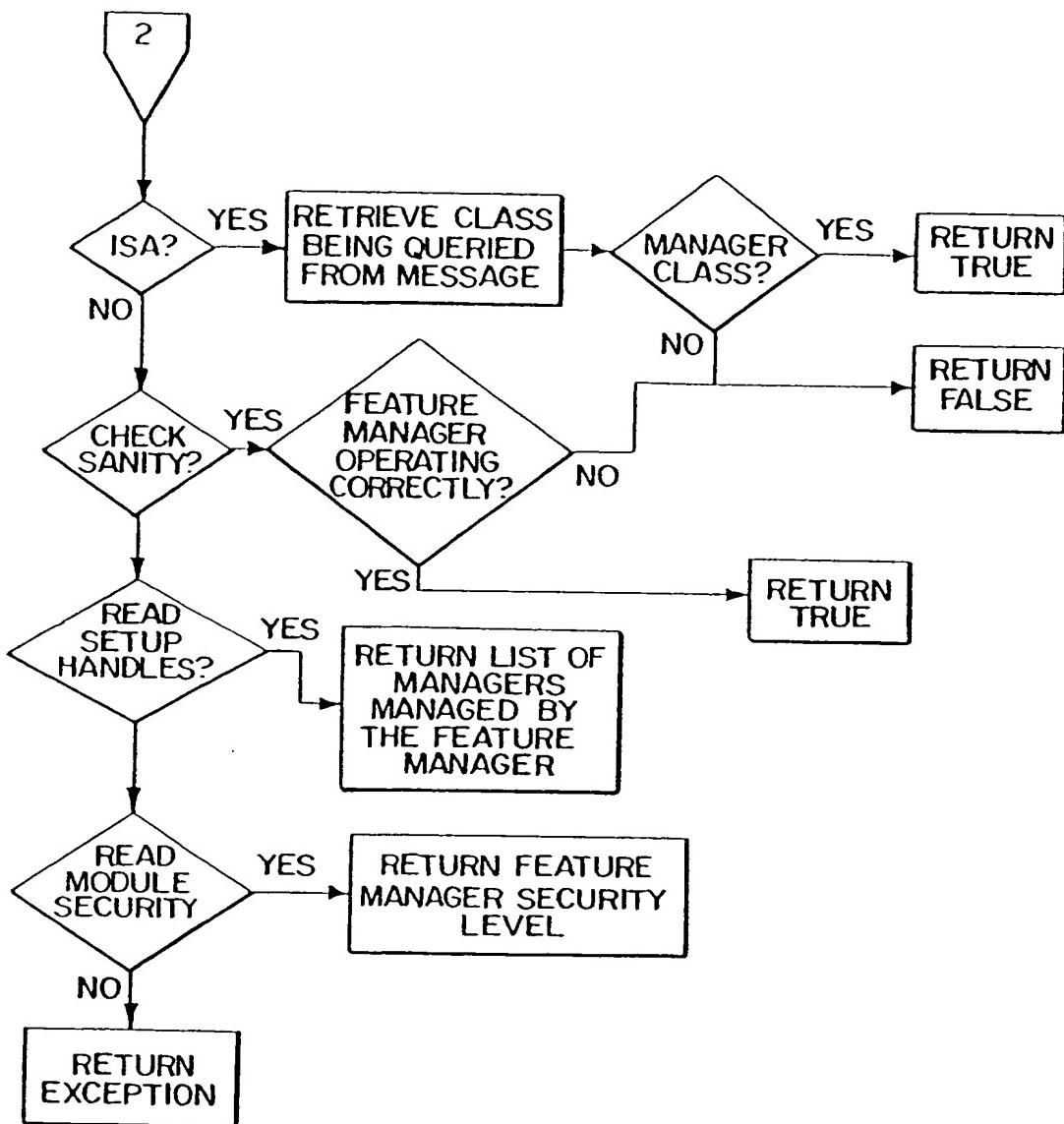


FIG. 26B



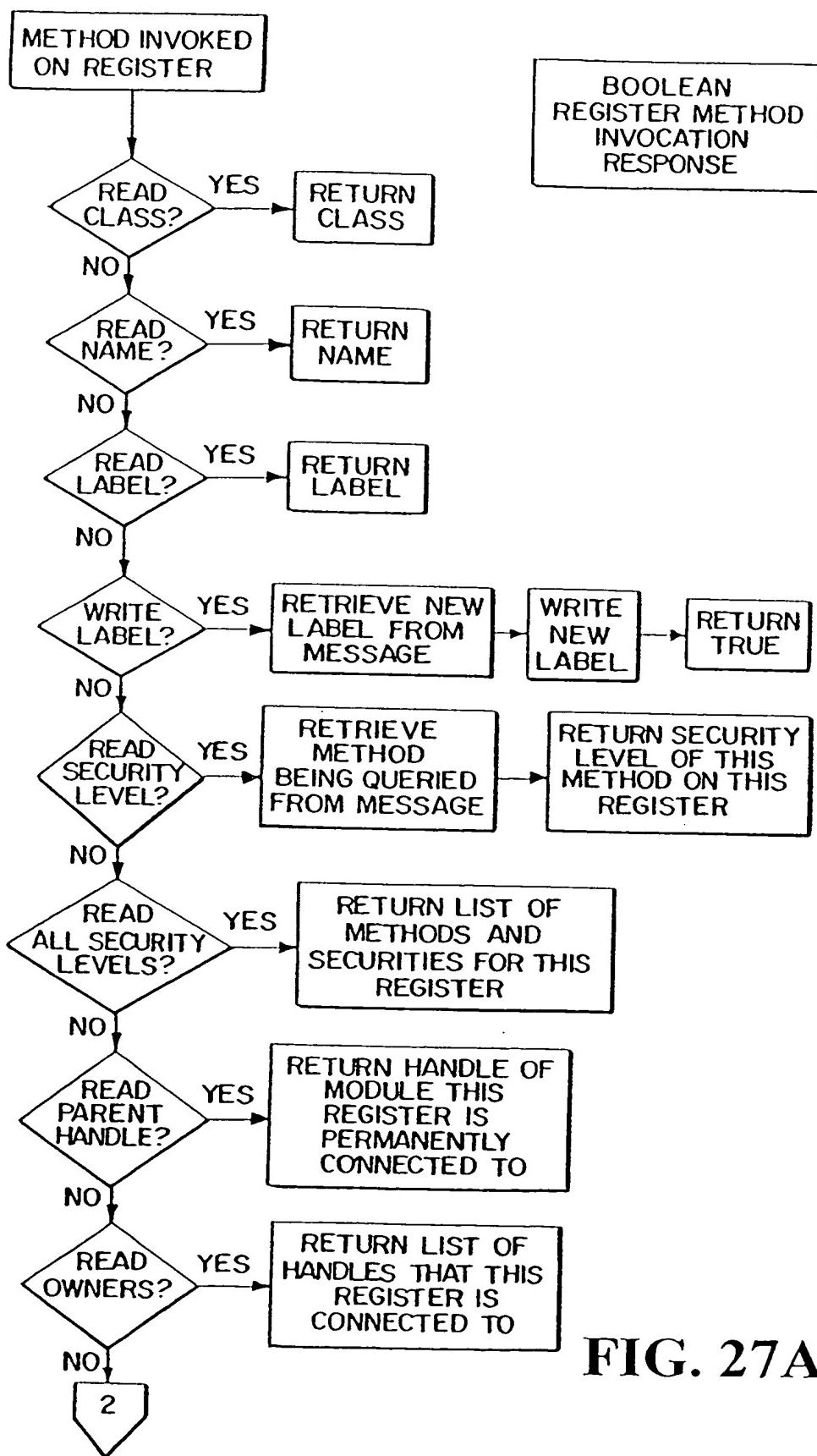


FIG. 27A

FIG. 27B

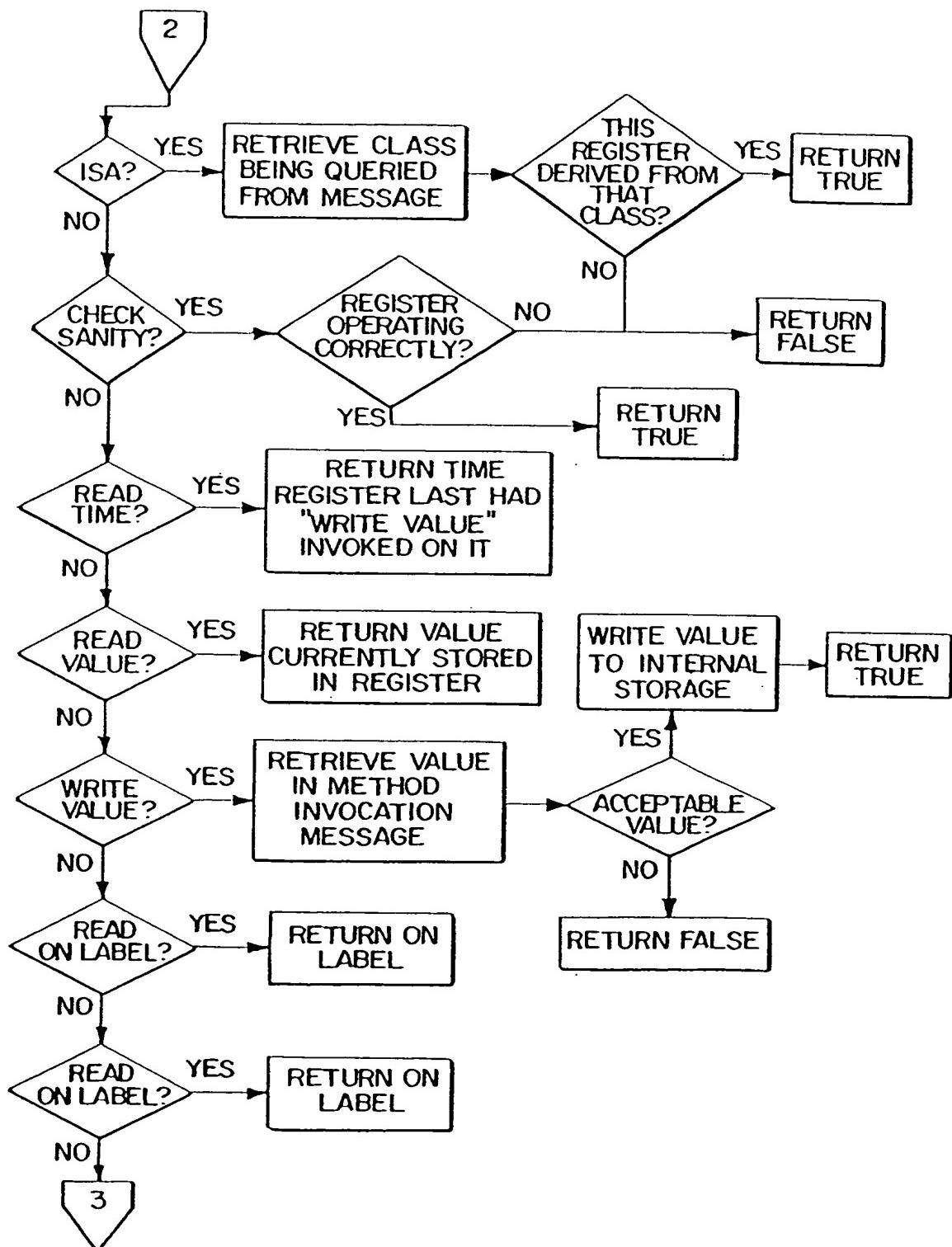


FIG. 27C

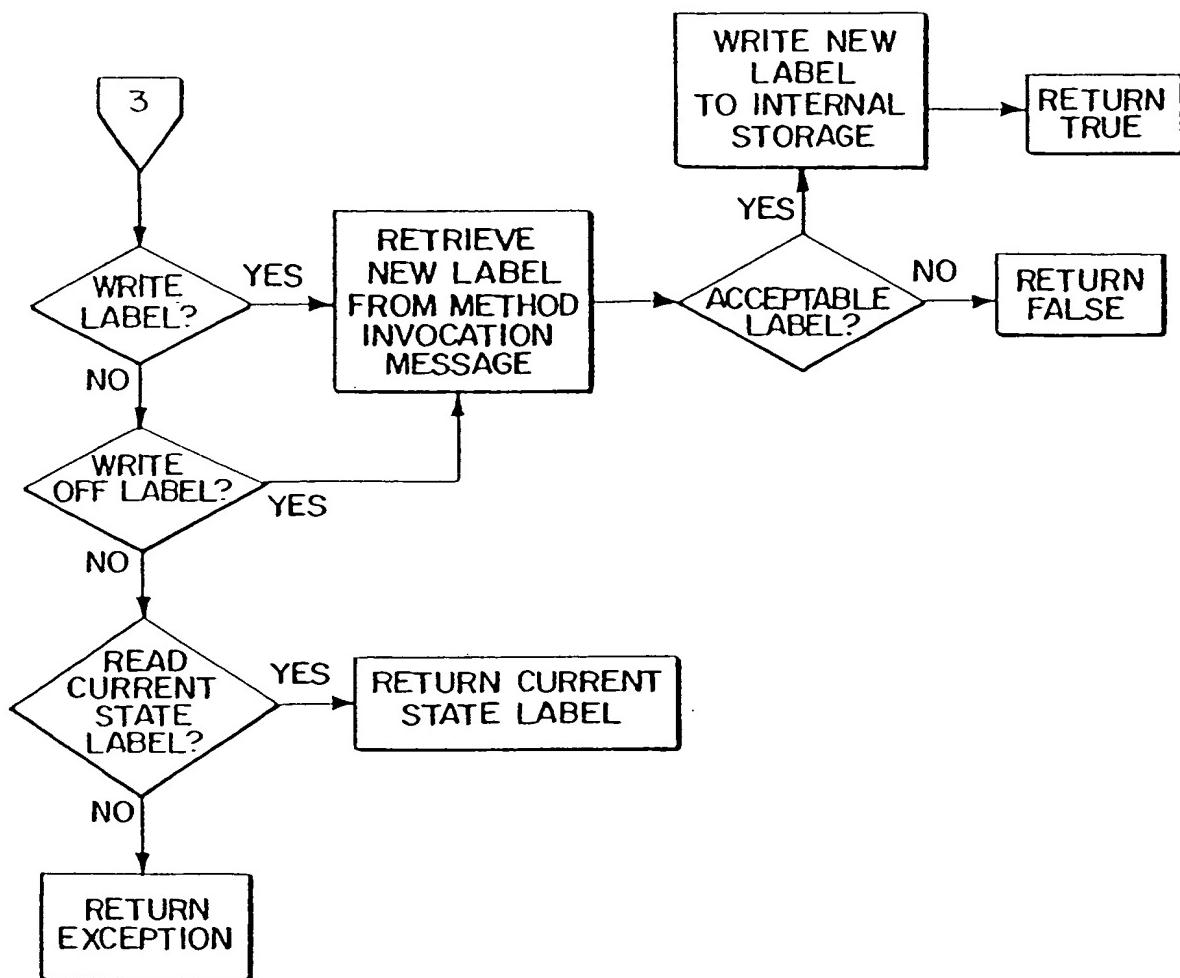


FIG. 28A

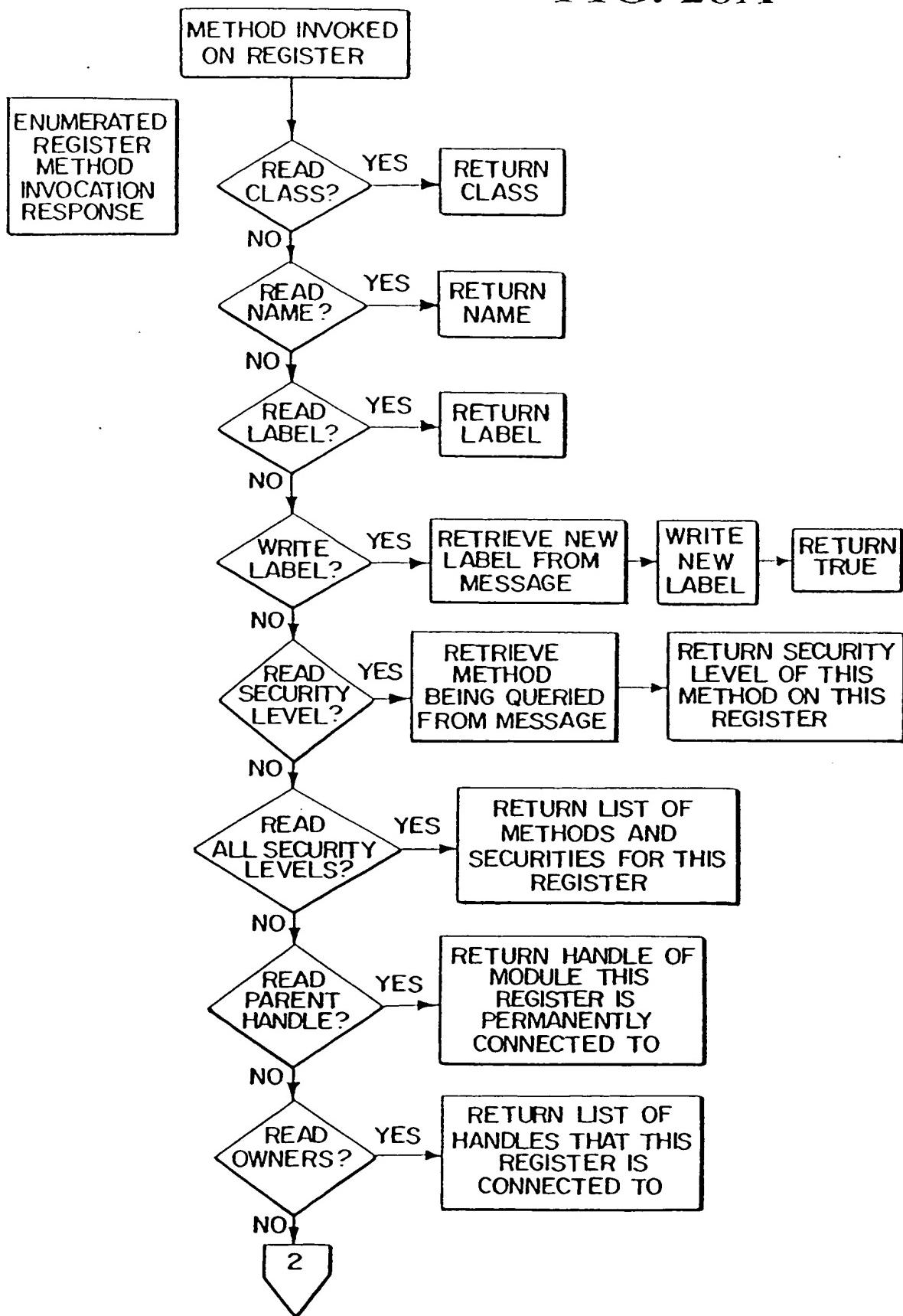


FIG. 28B

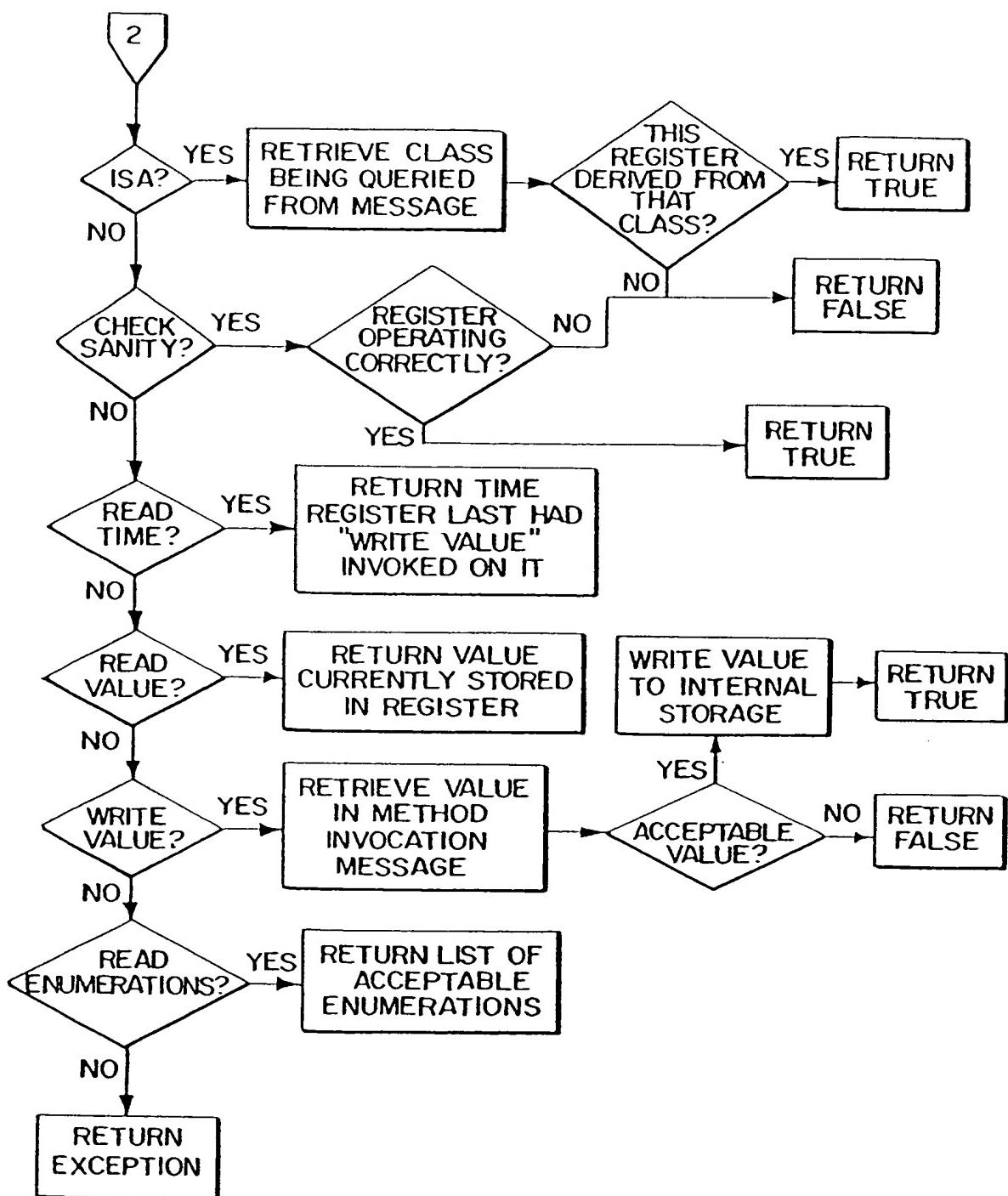


FIG. 29A

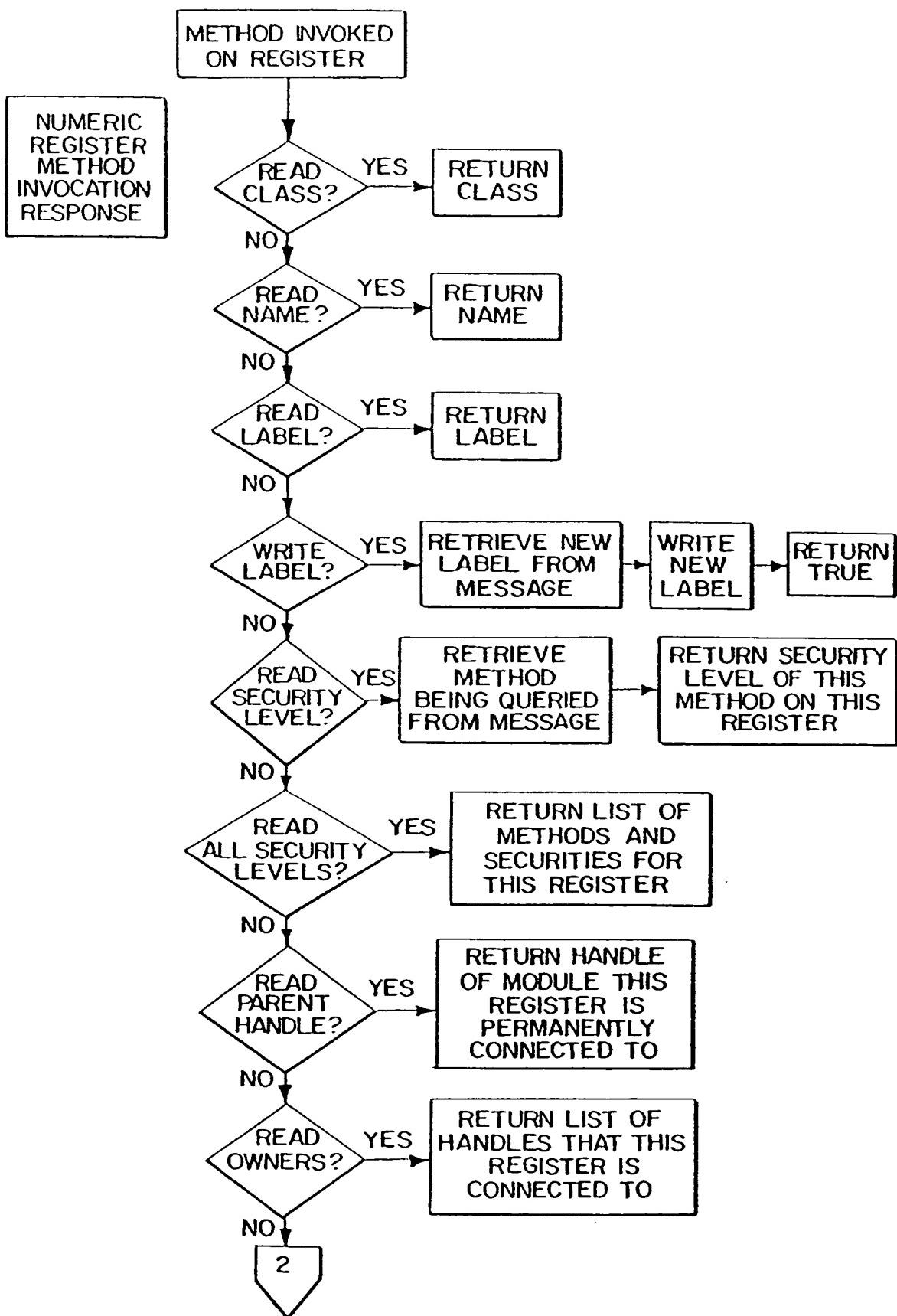
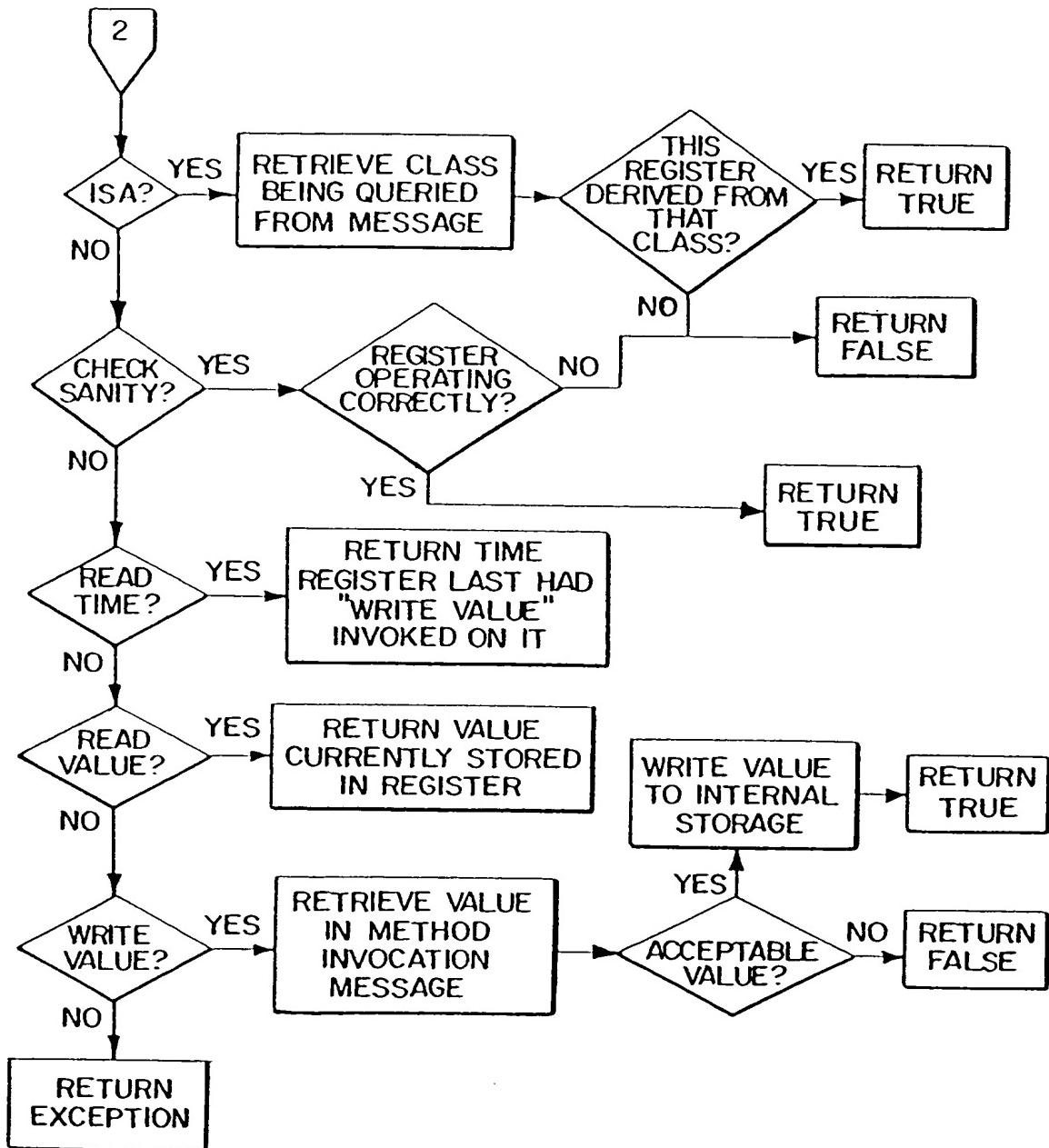


FIG. 29B



62 86 07

METHOD INVOKED
ON REGISTER

NUMERIC
BOUNDED
REGISTER
METHOD
INVOCATION
RESPONSE

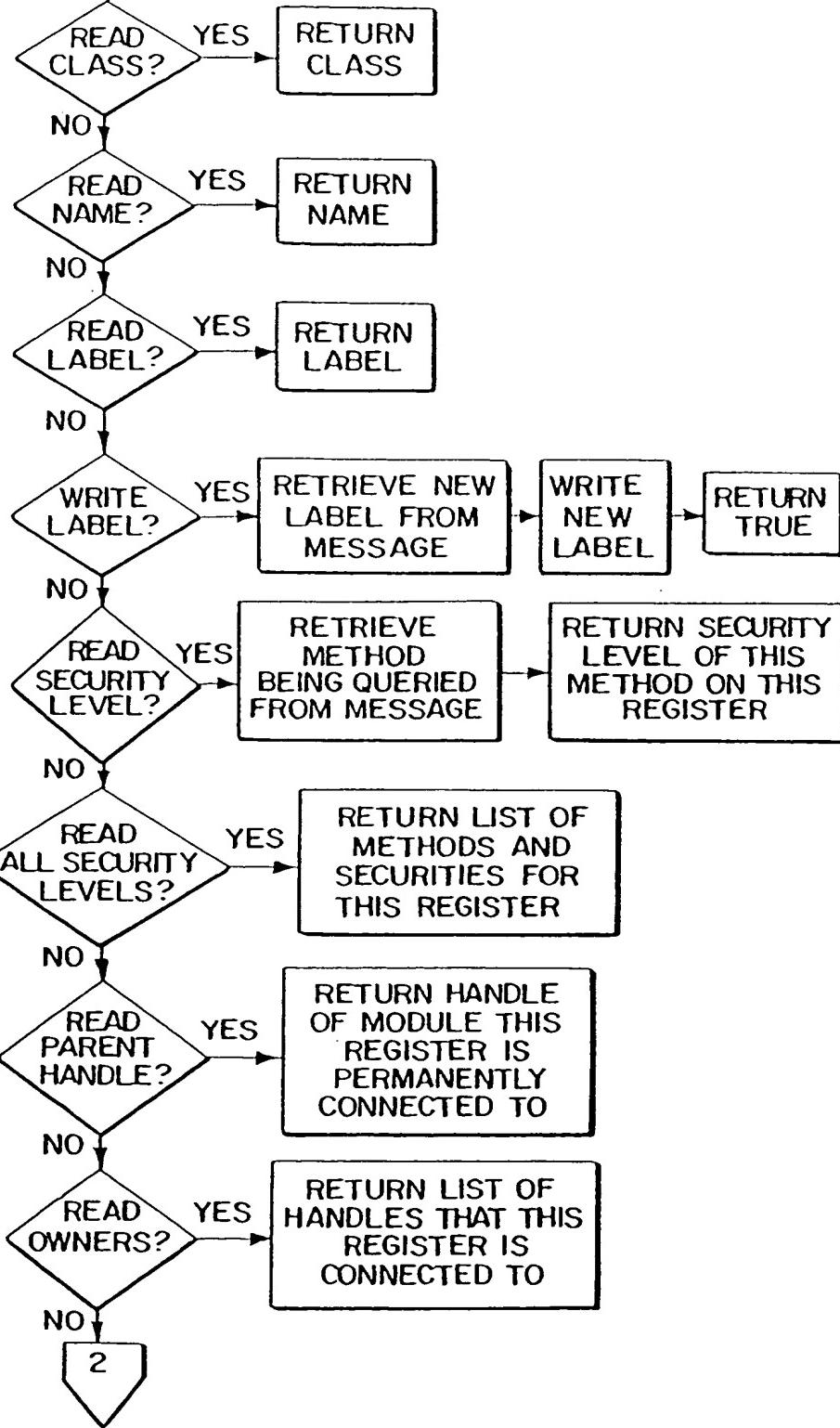
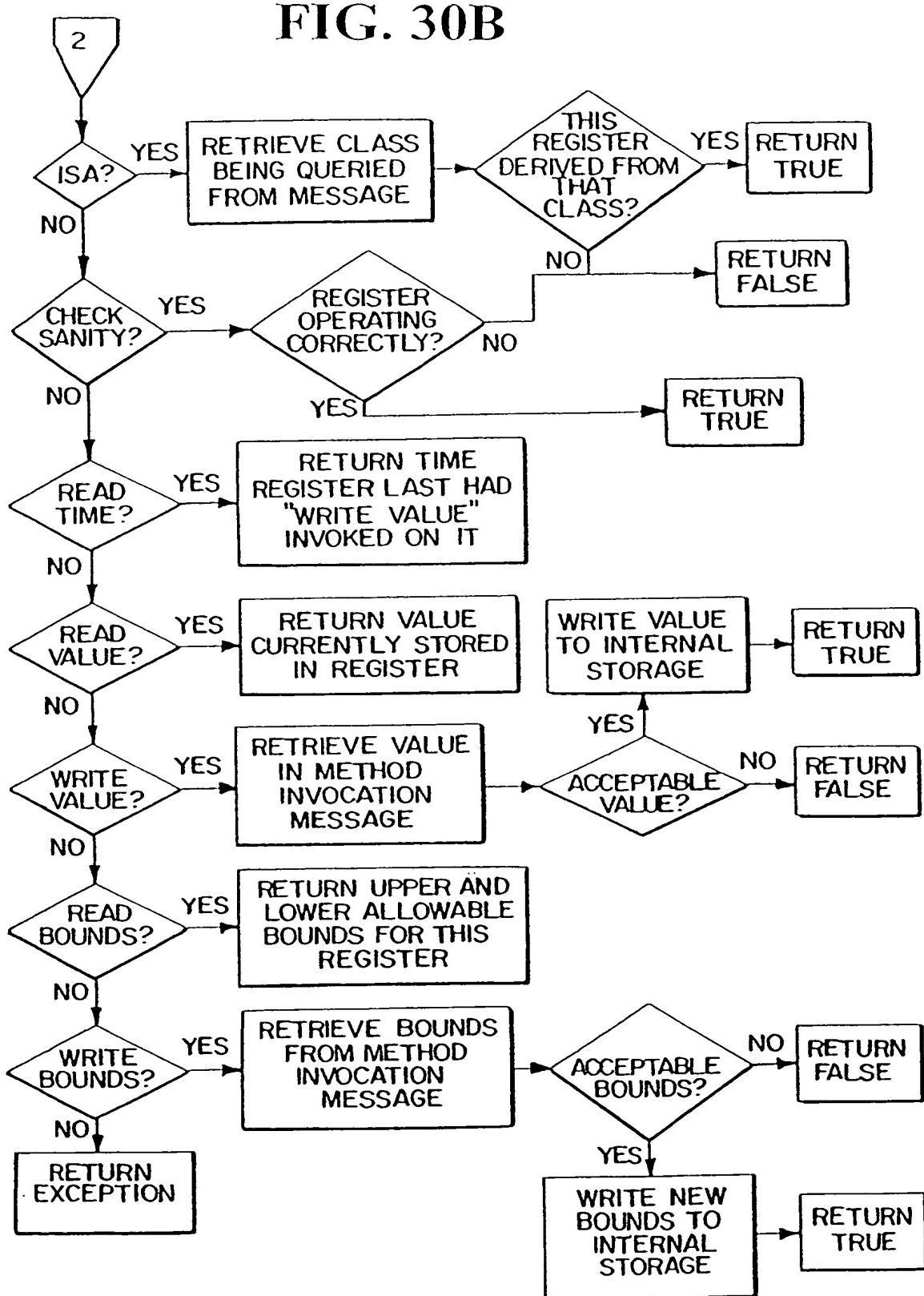


FIG. 30A

FIG. 30B



Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

64 A. 507

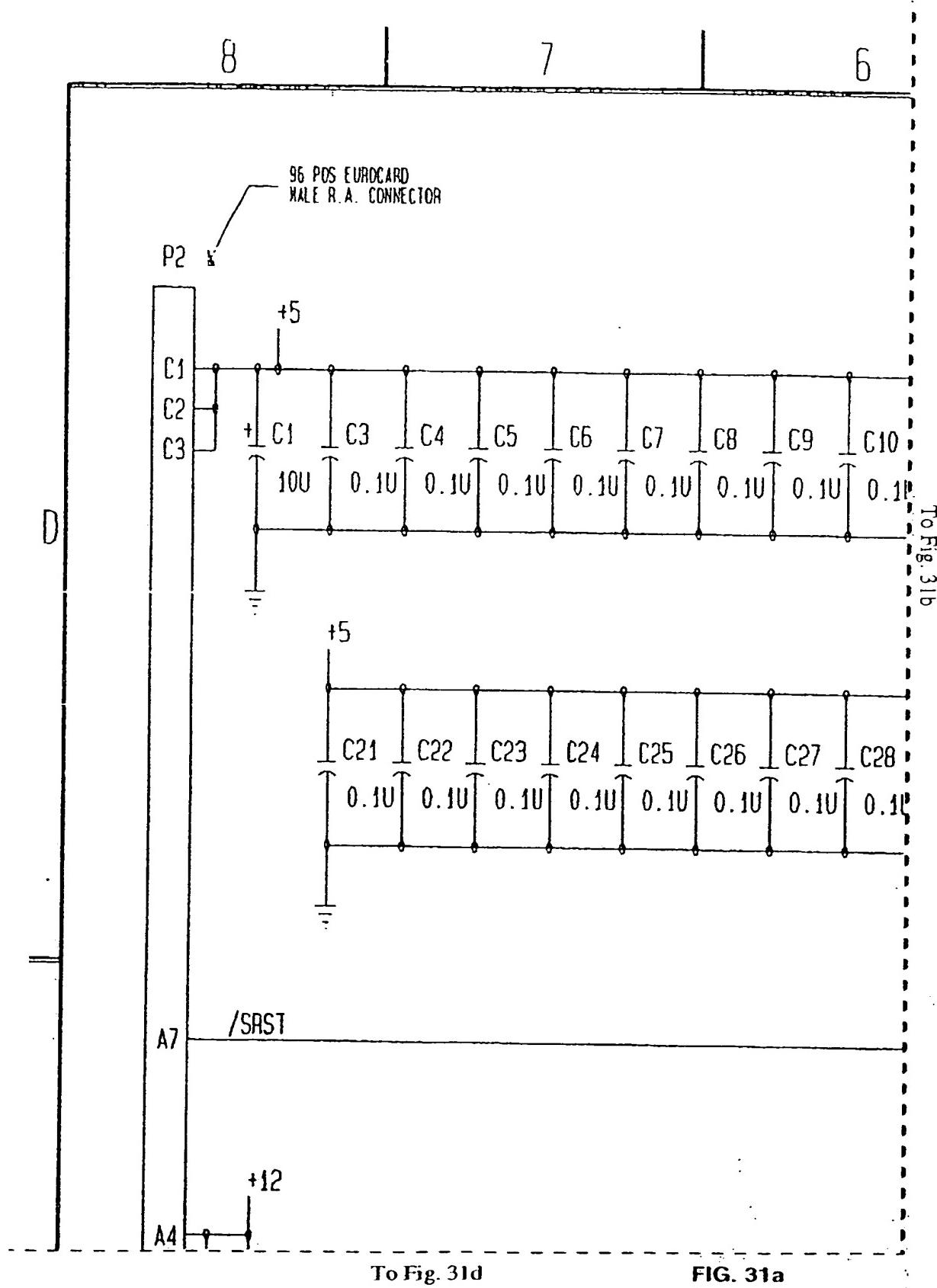
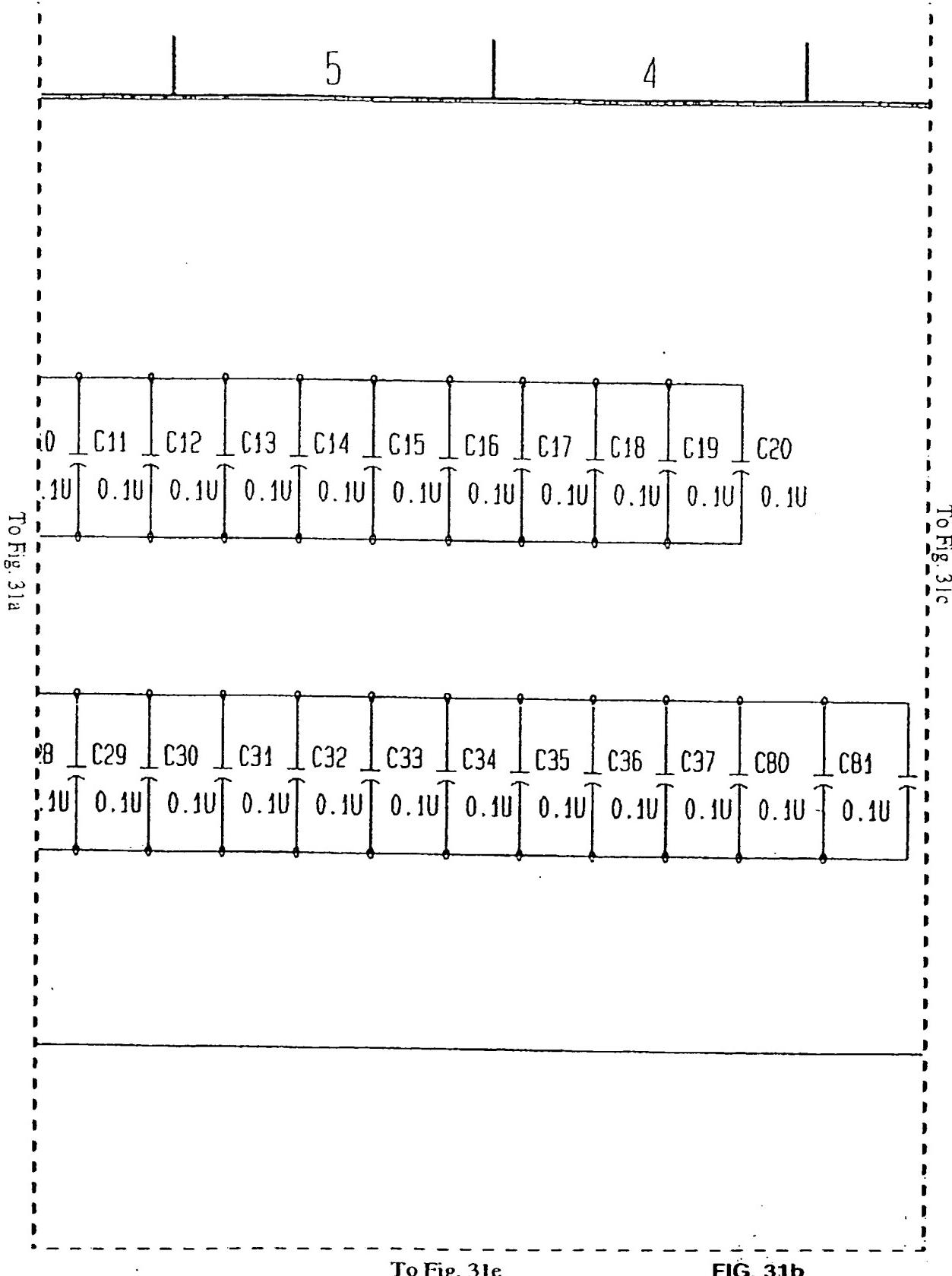


FIG. 31a

Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

65 ७३०७



66 07 07

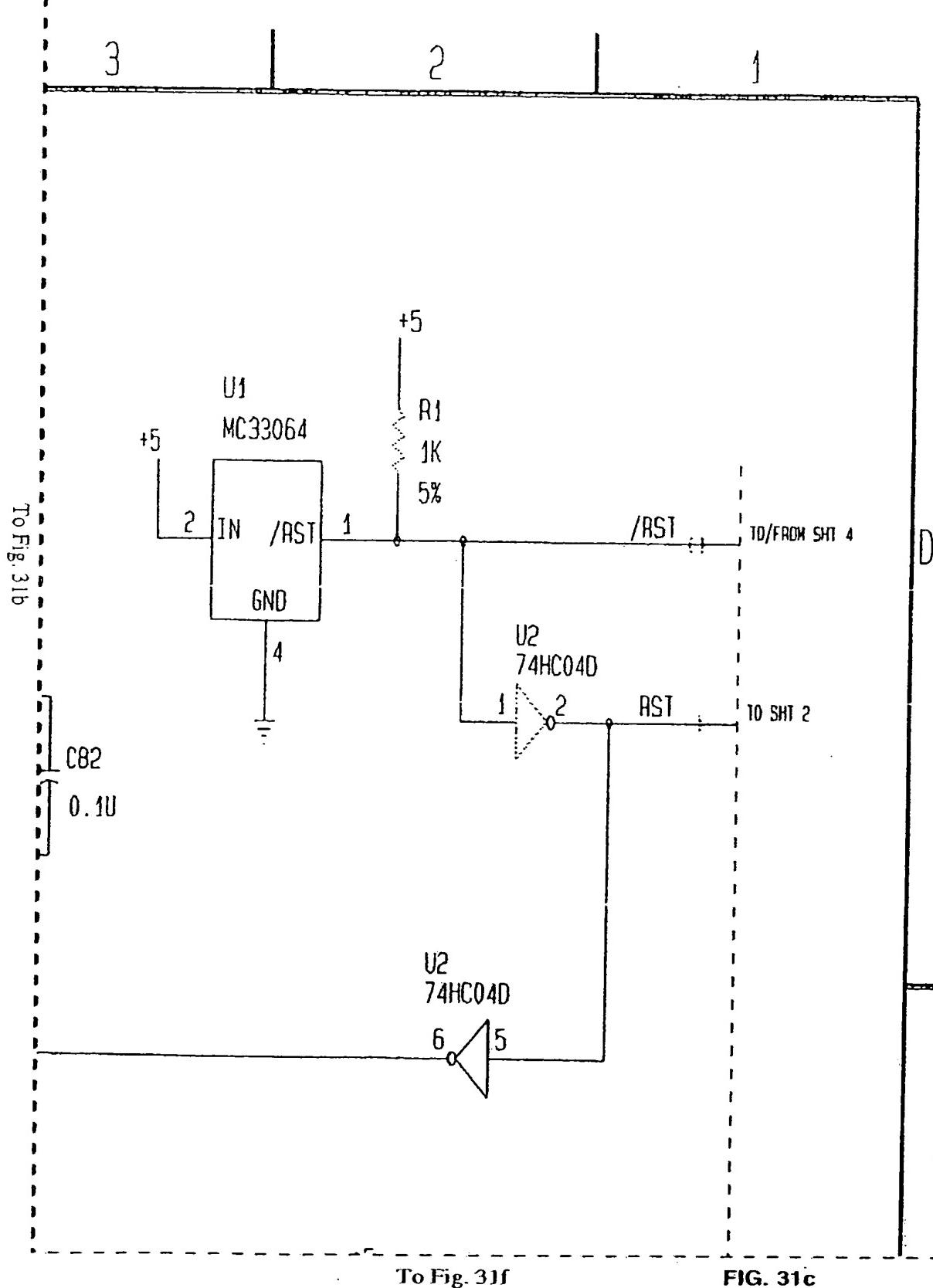
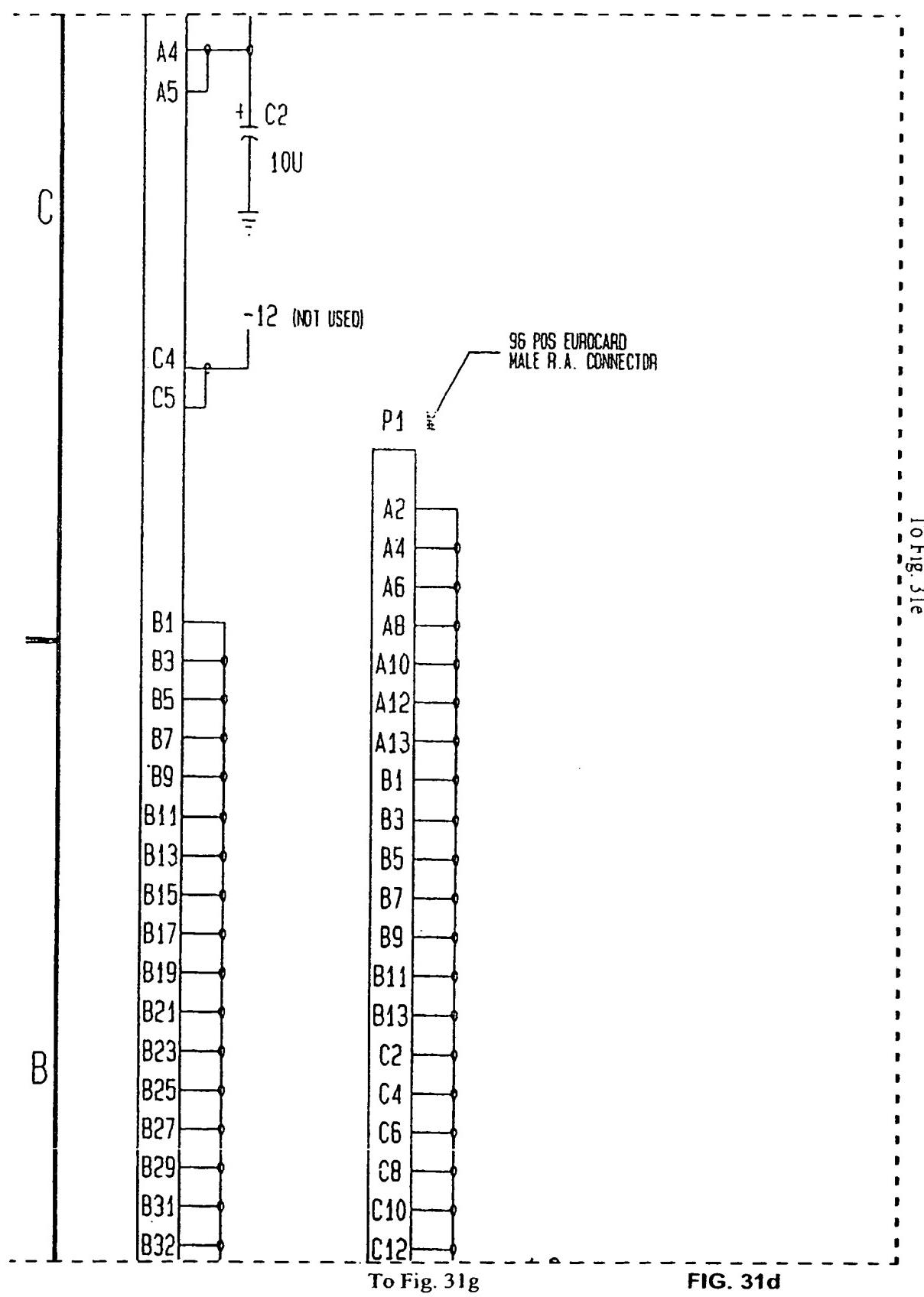


FIG. 31c

6708207

To Fig. 31a



Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

68 67 307

To Fig. 31b

To Fig. 31d

To Fig. 31f

To Fig. 31h

FIG. 31e

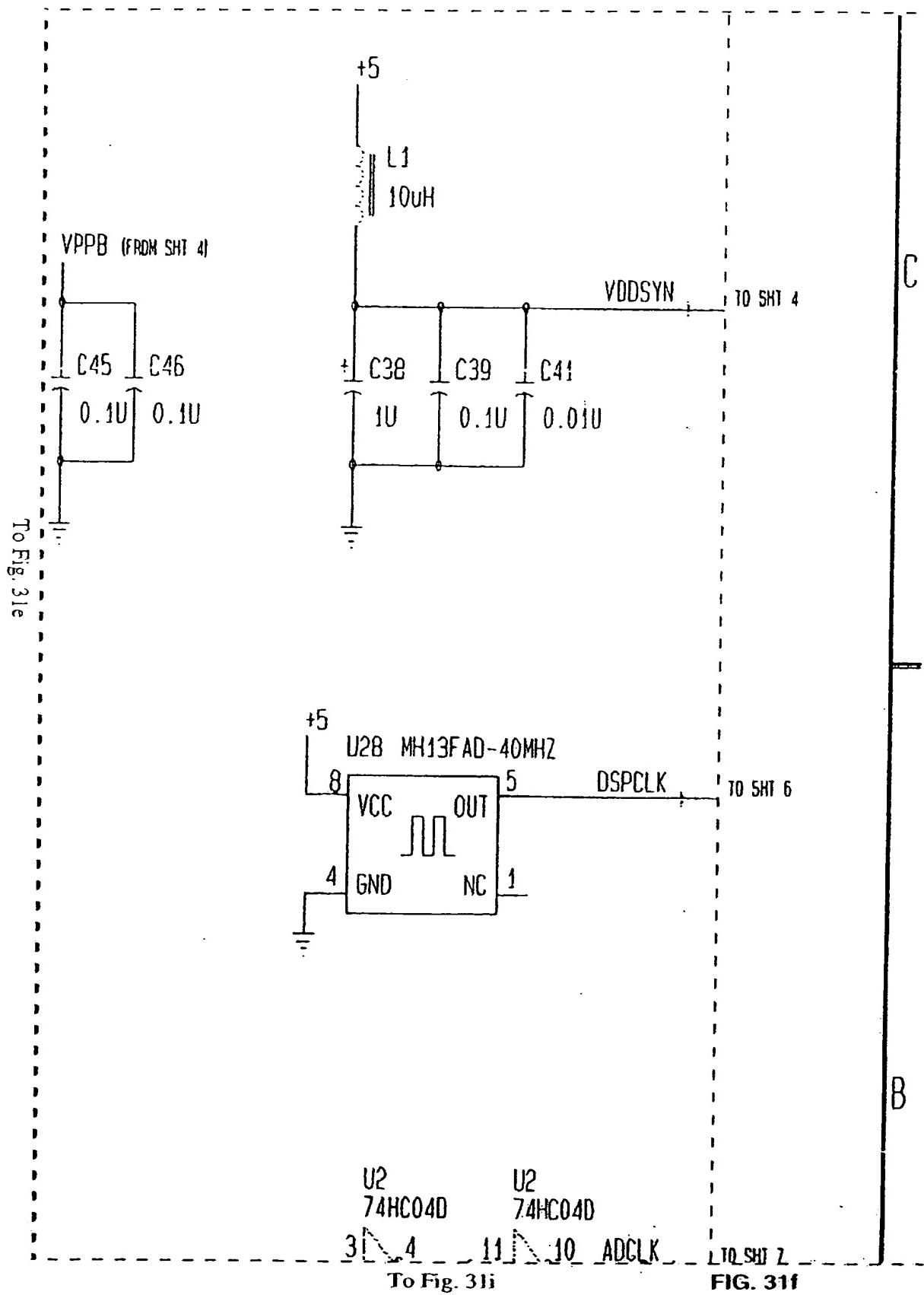
Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

69 18 207

To Fig. 31c



7063-07

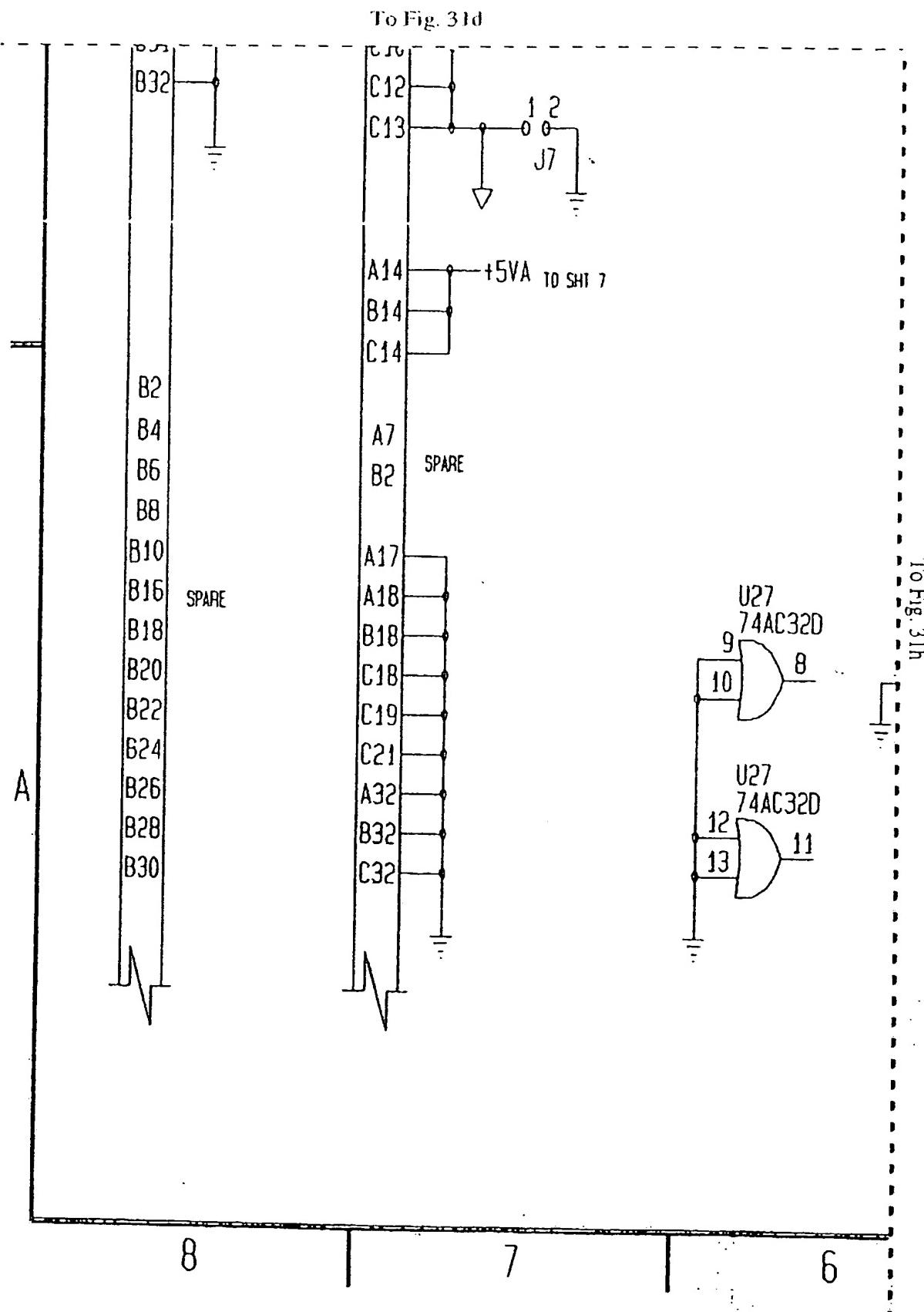


FIG. 31g

To Fig. 31e

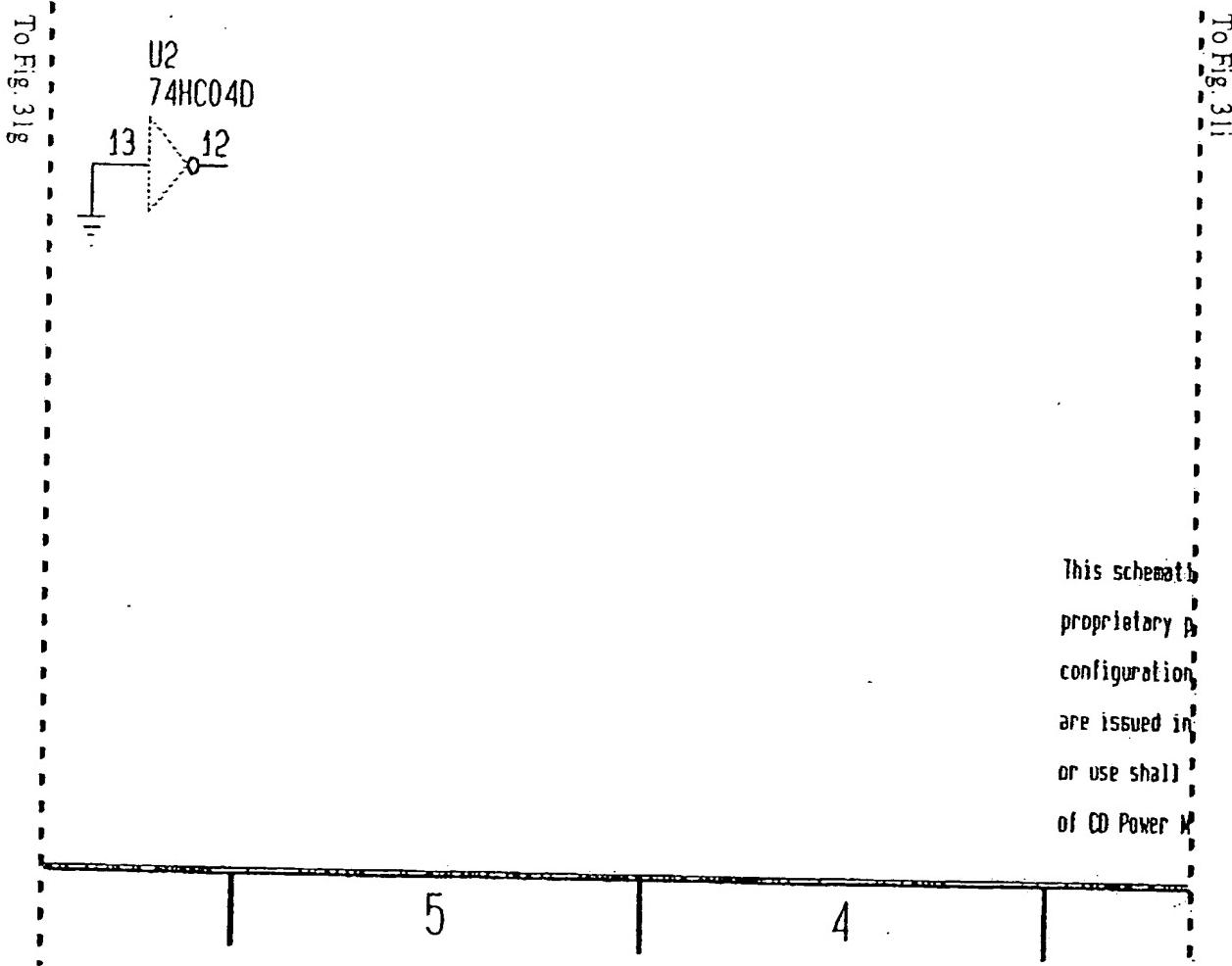
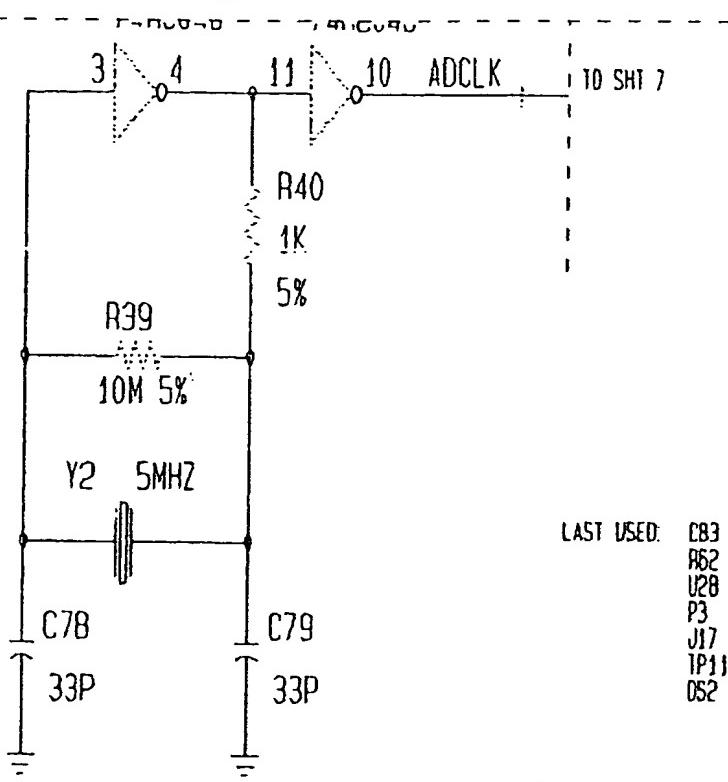


FIG. 31h

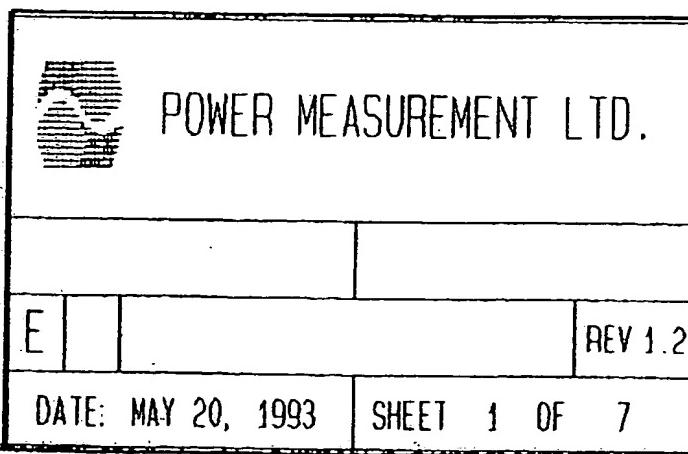
72 8207

To Fig. 31f



To Fig 31h

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FIG. 31f

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

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DIGI/ANALOG I/O

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To Fig. 32b

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A26	DAI00	47	1A1	1B1	2	TPU0
C27	DAI01	46	1A2	1B2	3	TPU1
B27	DAI02	44	1A3	1B3	5	TPU2
A27	DAI03	43	1A4	1B4	6	TPU3
C28	DAI04	41	1A5	1B5	8	TPU4
B28	DAI05	40	1A6	1B6	9	TPU5
A28	DAI06	38	1A7	1B7	11	TPU6
C29	DAI07	37	1A8	1B8	12	TPU7
	DAI08	36			13	TPU8

To Fig. 32d

FIG. 32a

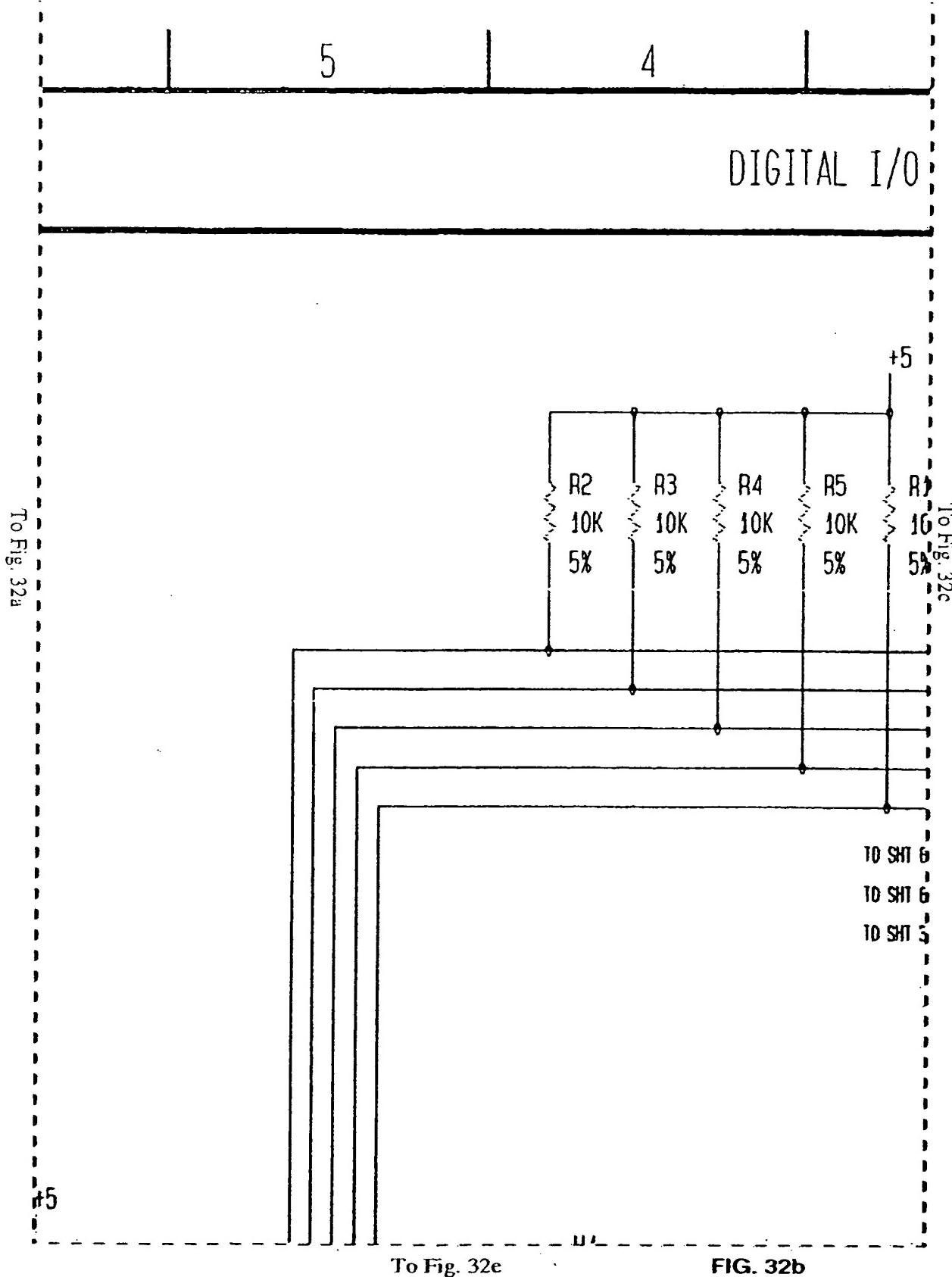
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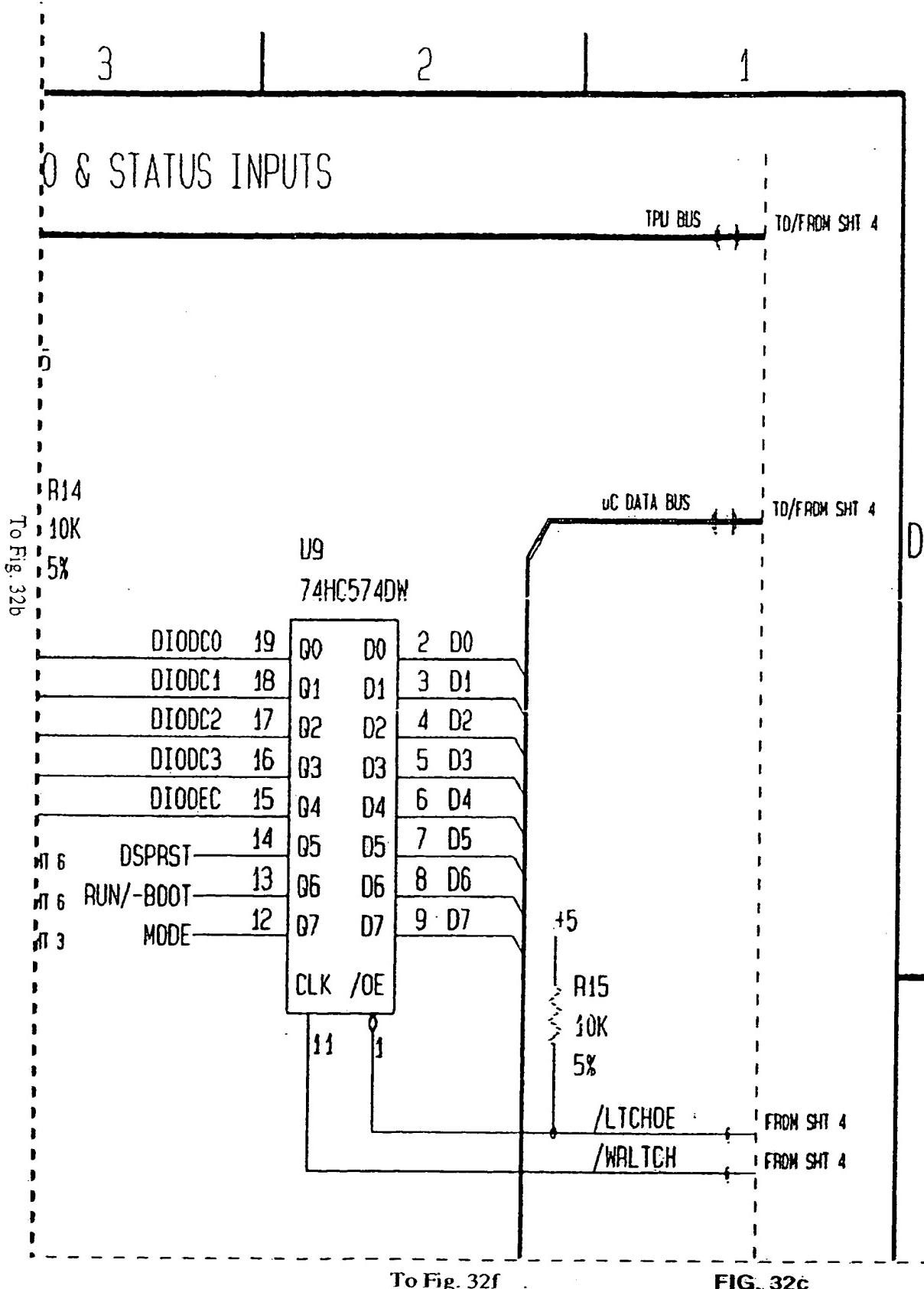
Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

14 66 207

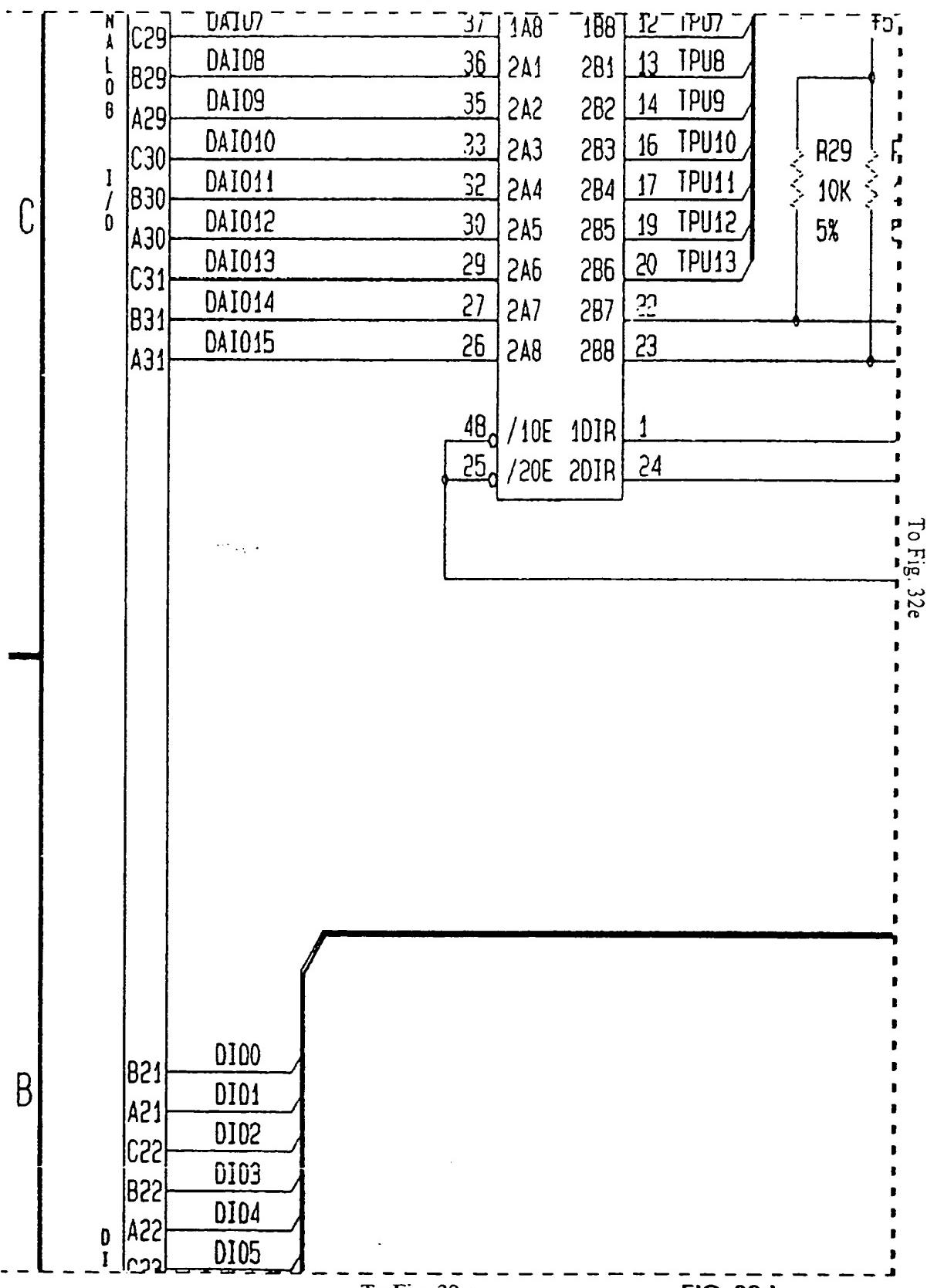


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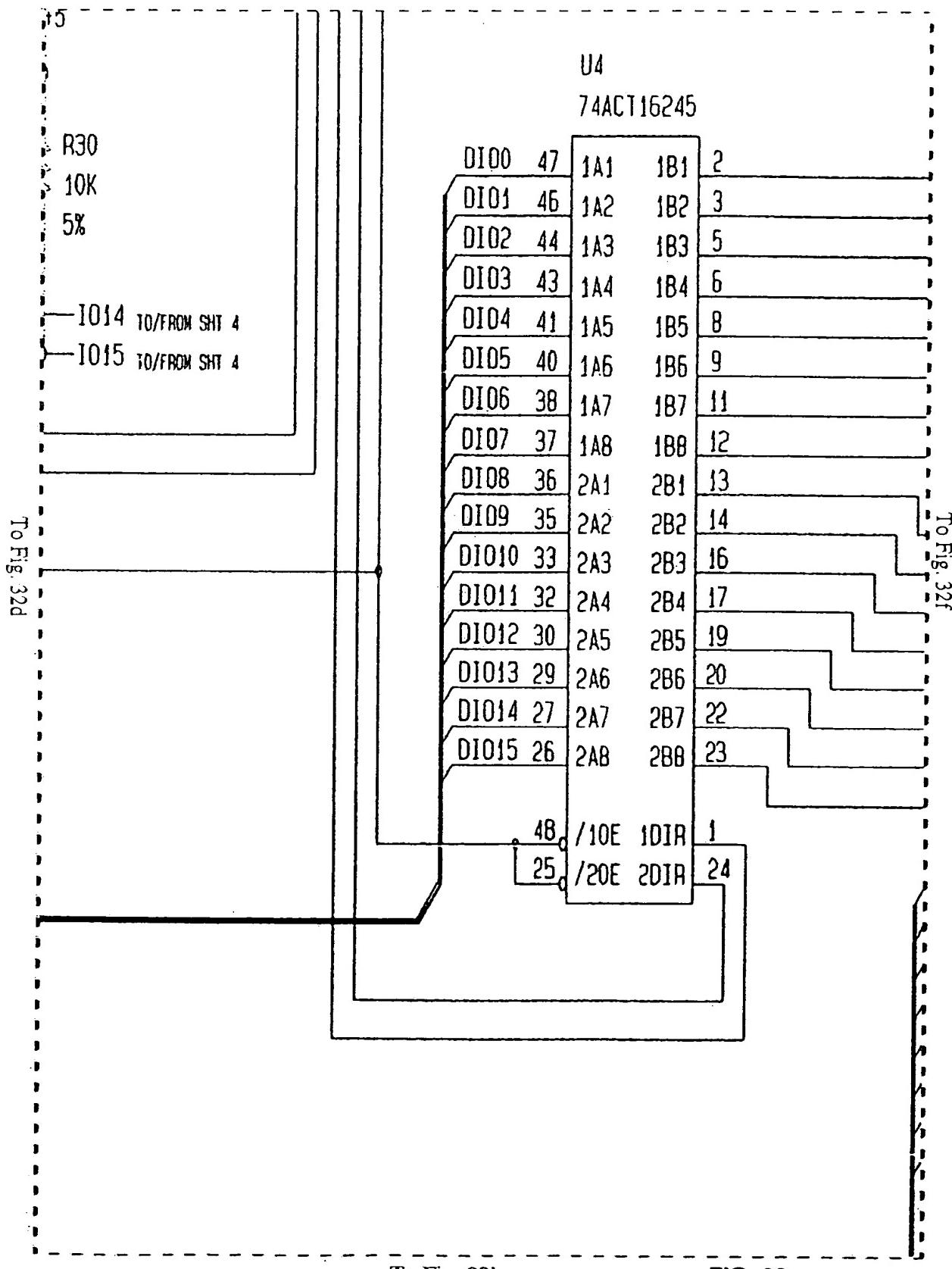
To Fig. 32a



To Fig. 32g

FIG. 32d

To Fig. 32b

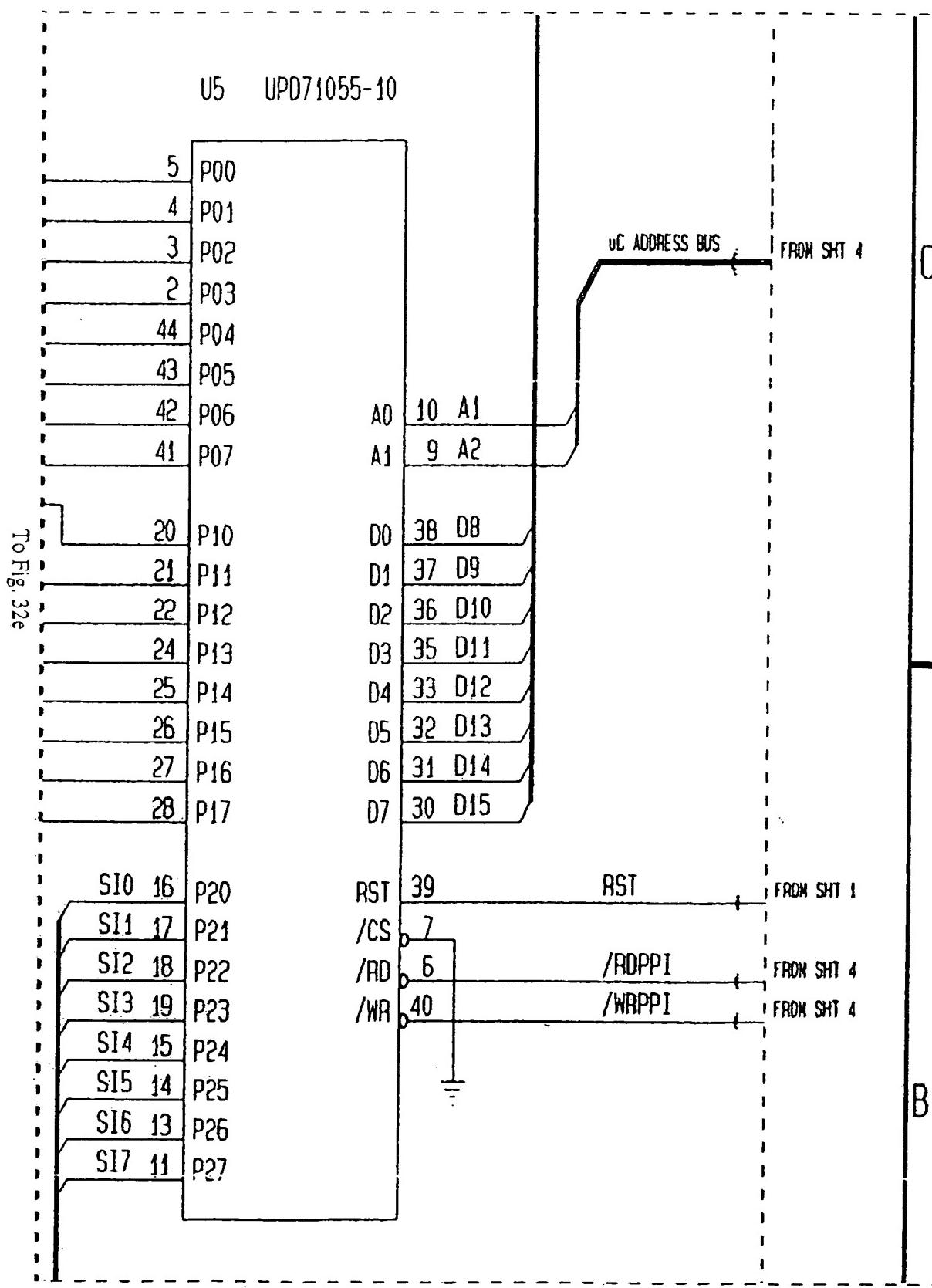


To Fig. 32b

FIG. 32e

78 3-07

To Fig. 32c



To Fig. 32i

FIG. 32f

79 8207

To Fig. 32d

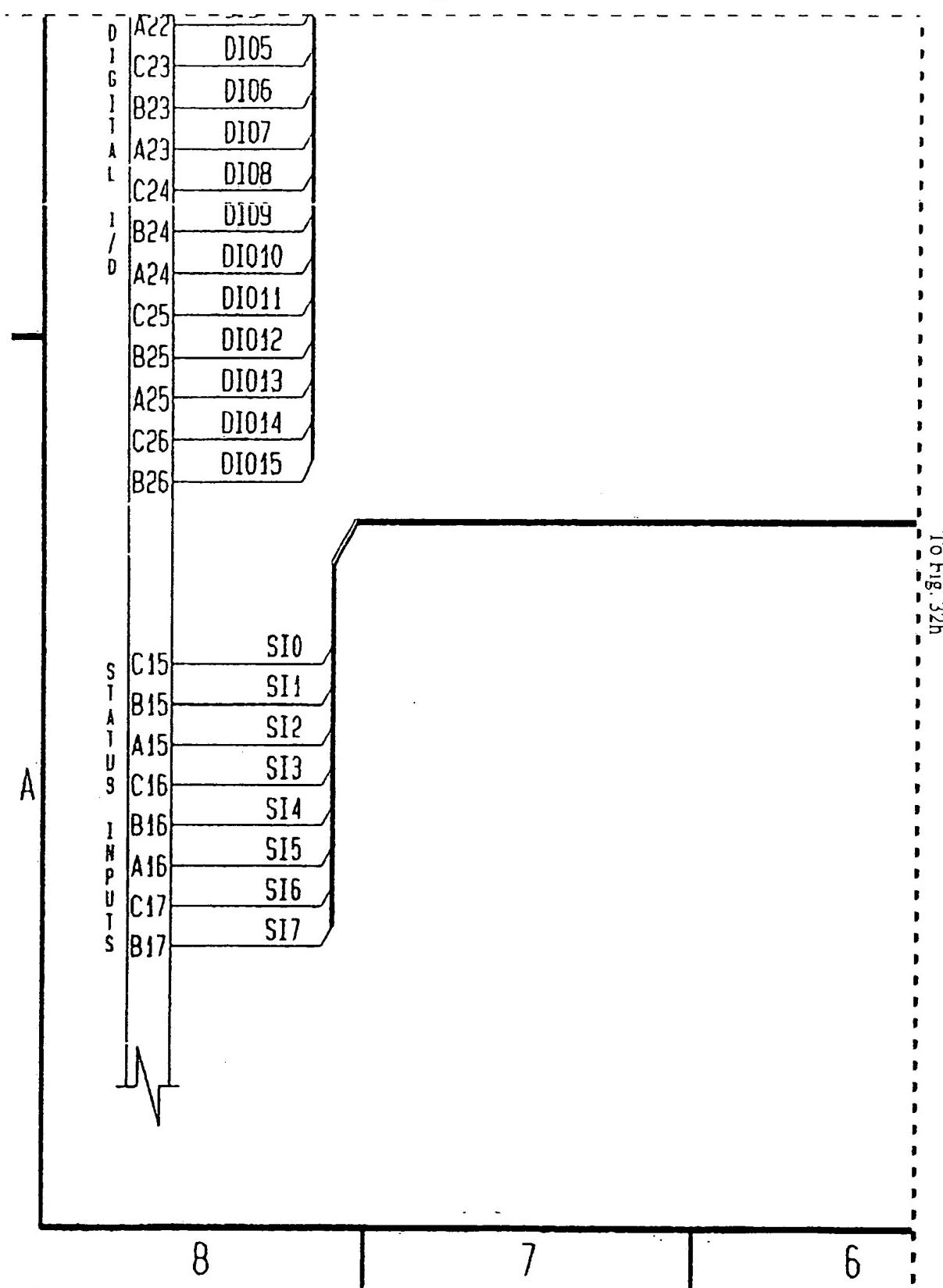
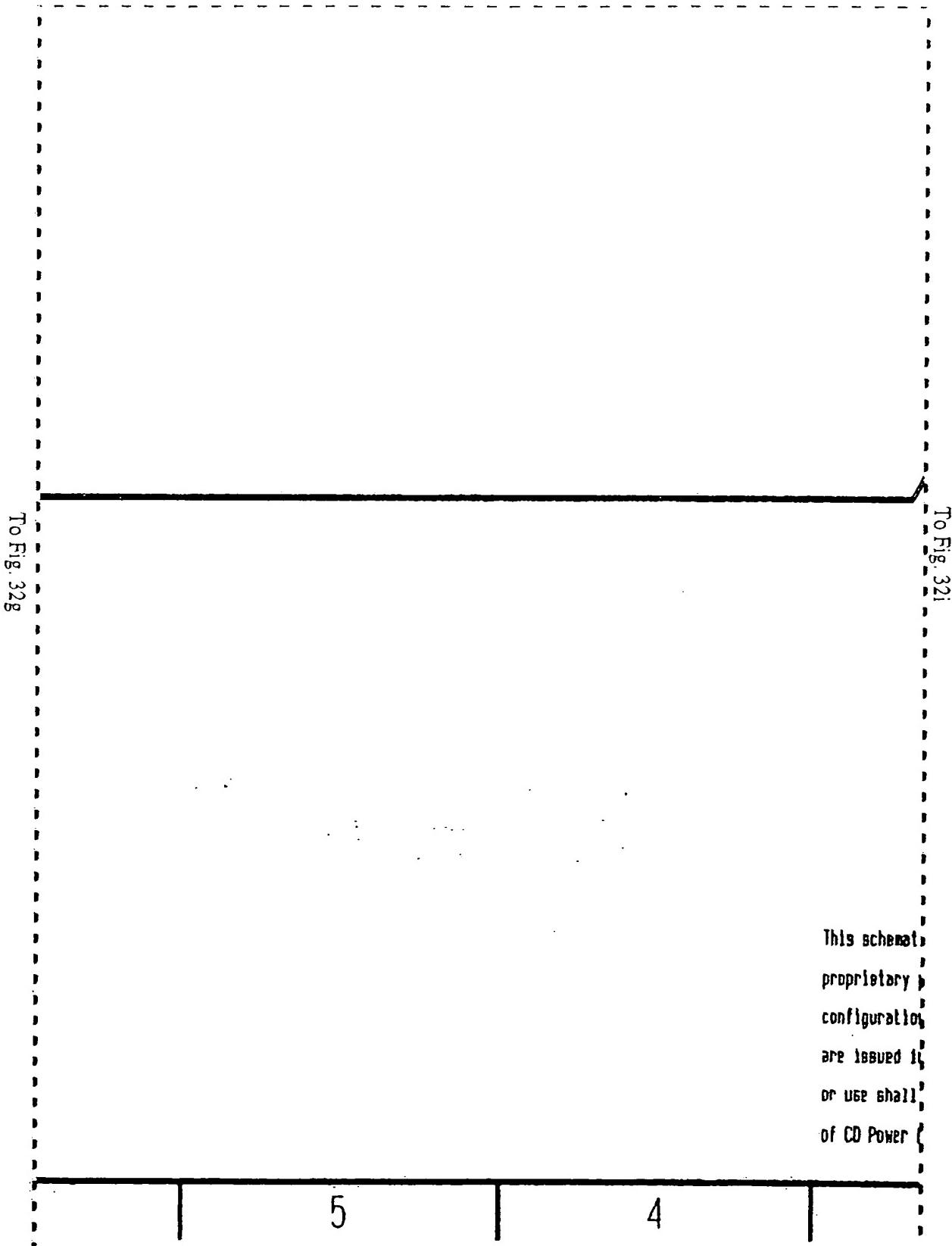


FIG. 32g

To Fig. 32e



5

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FIG. 32h

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

81 86307

To Fig. 32f

To Fig. 32h

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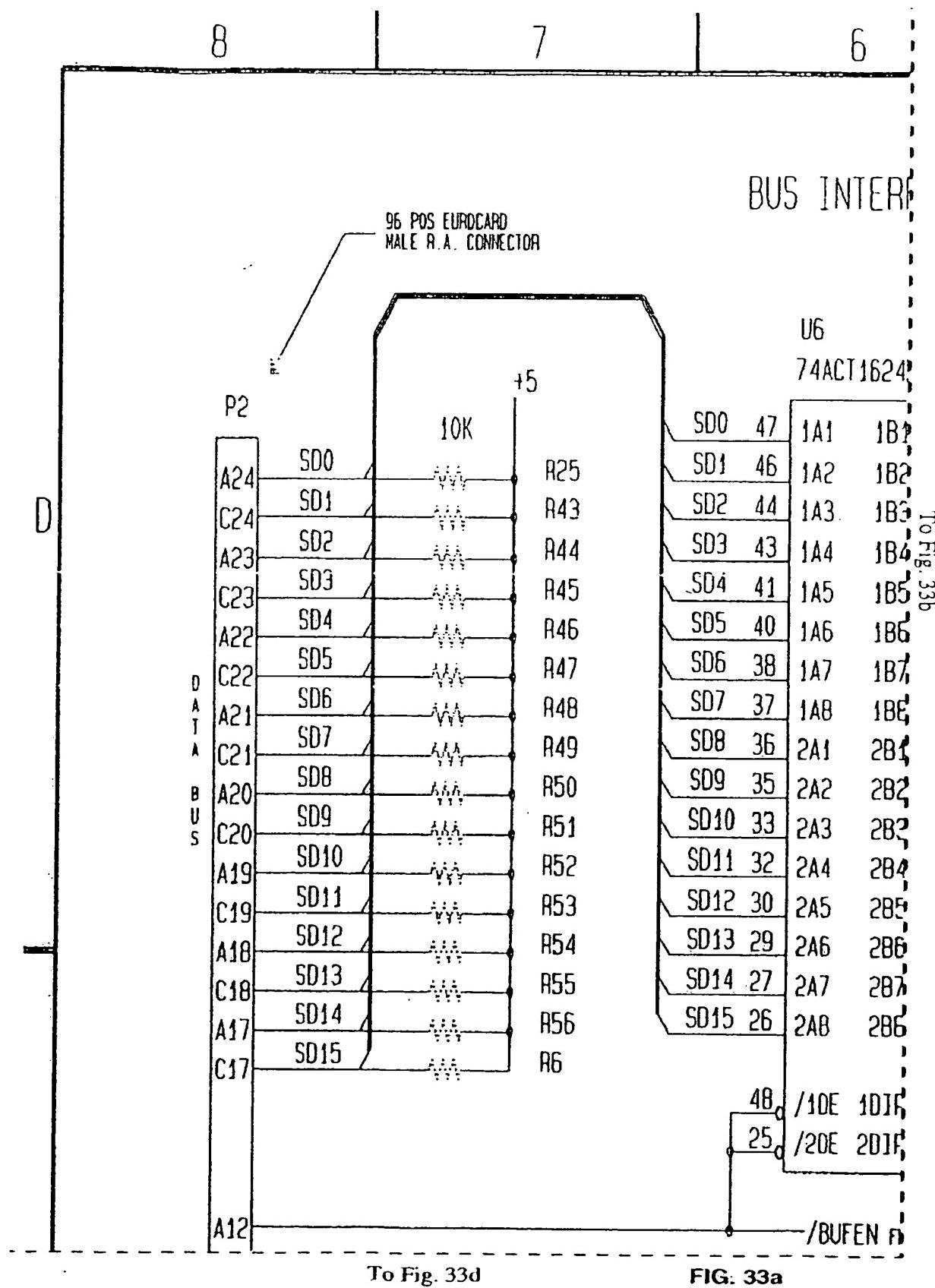
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FIG. 32i

83 06 207

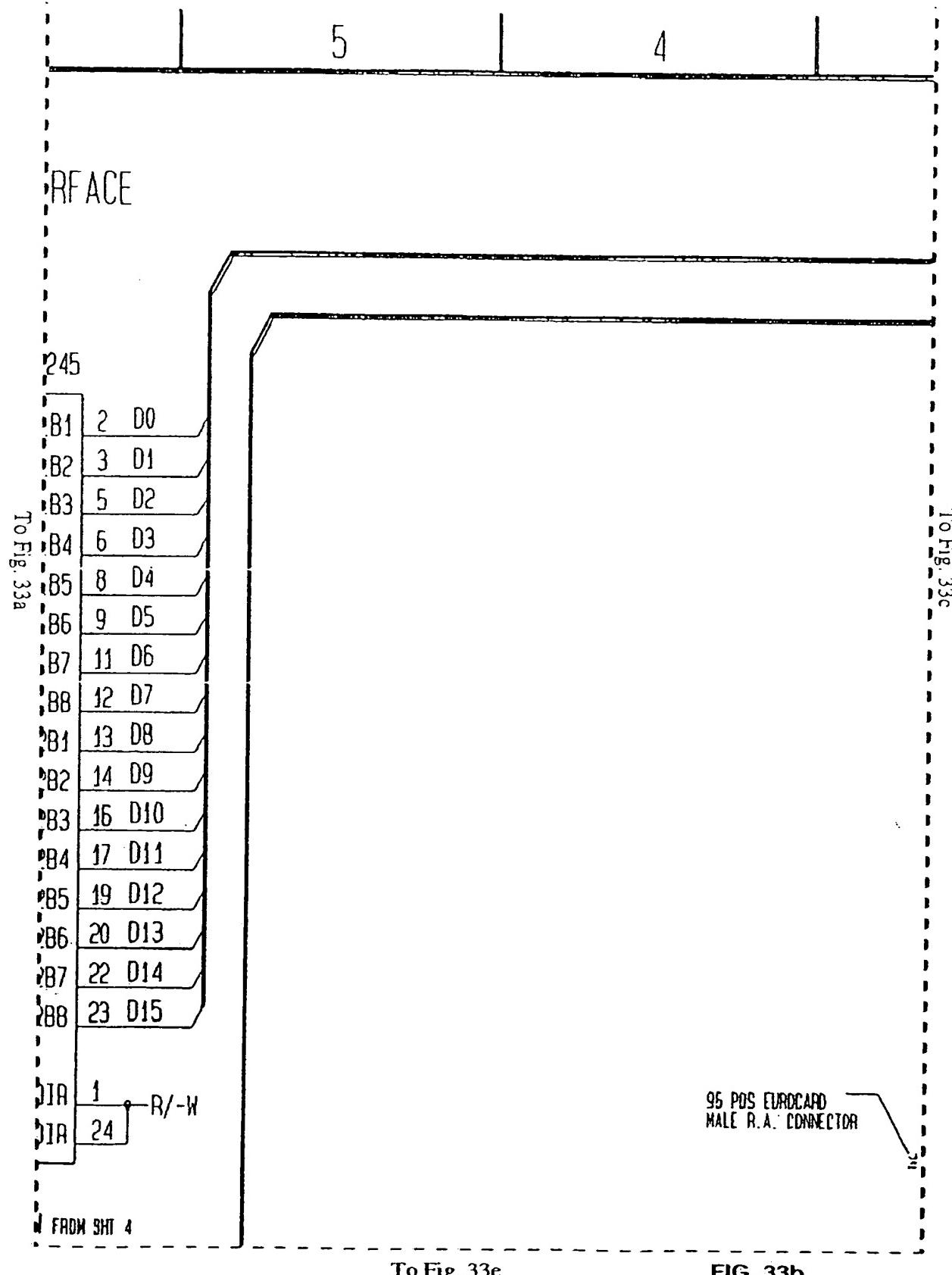


Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

83 86 307



84 86 807

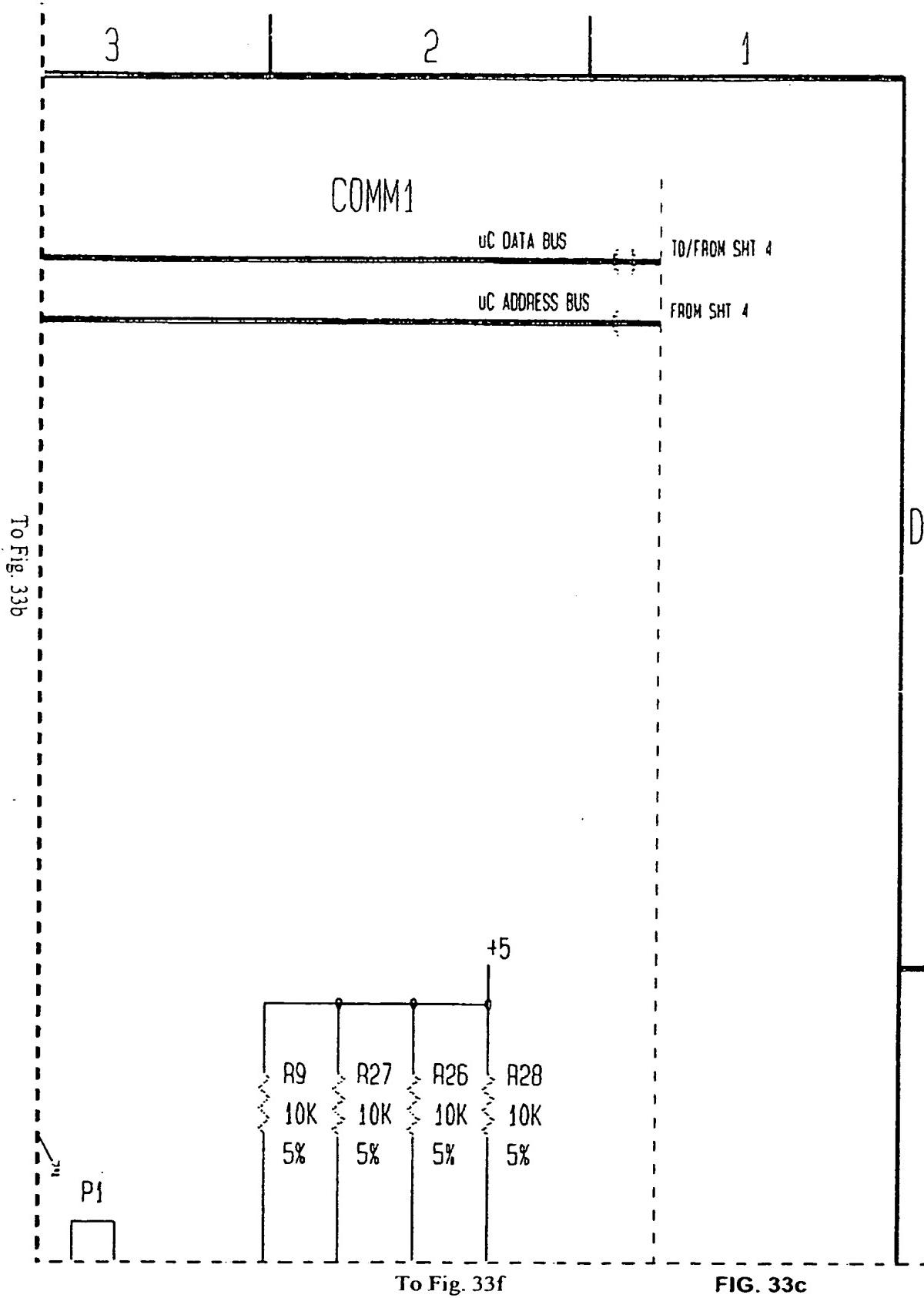


FIG. 33c

85 8 307

To Fig. 33a

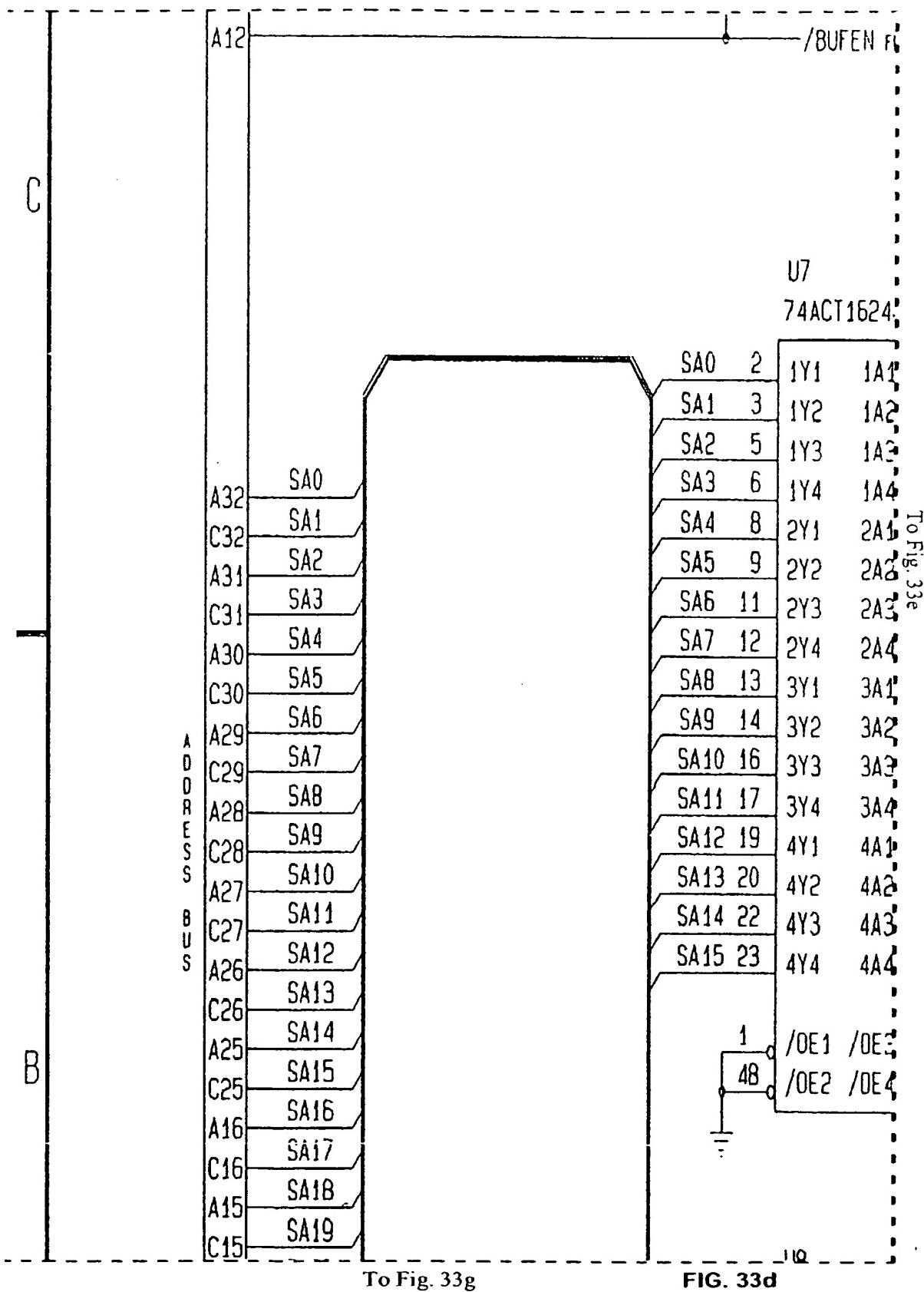
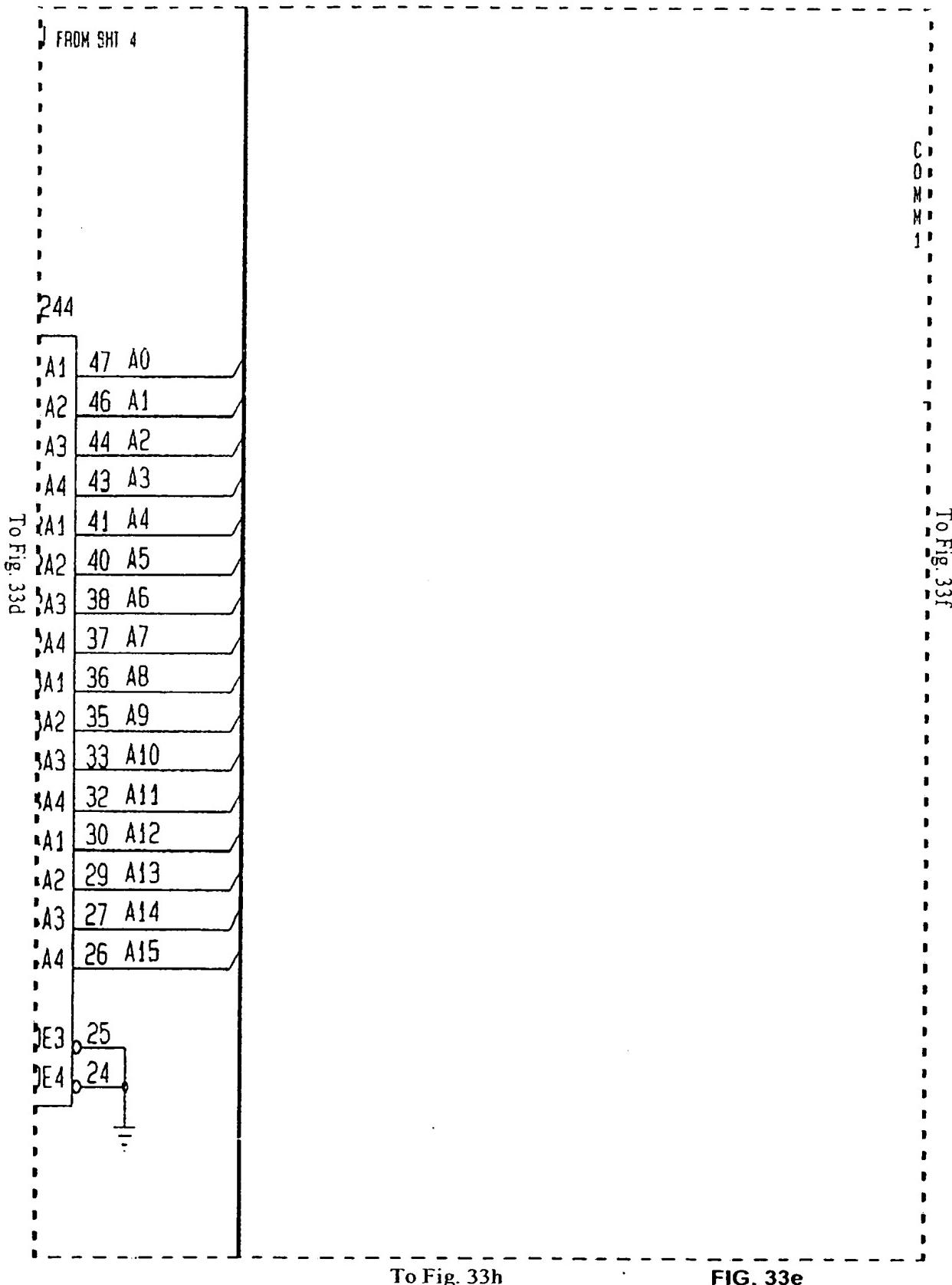
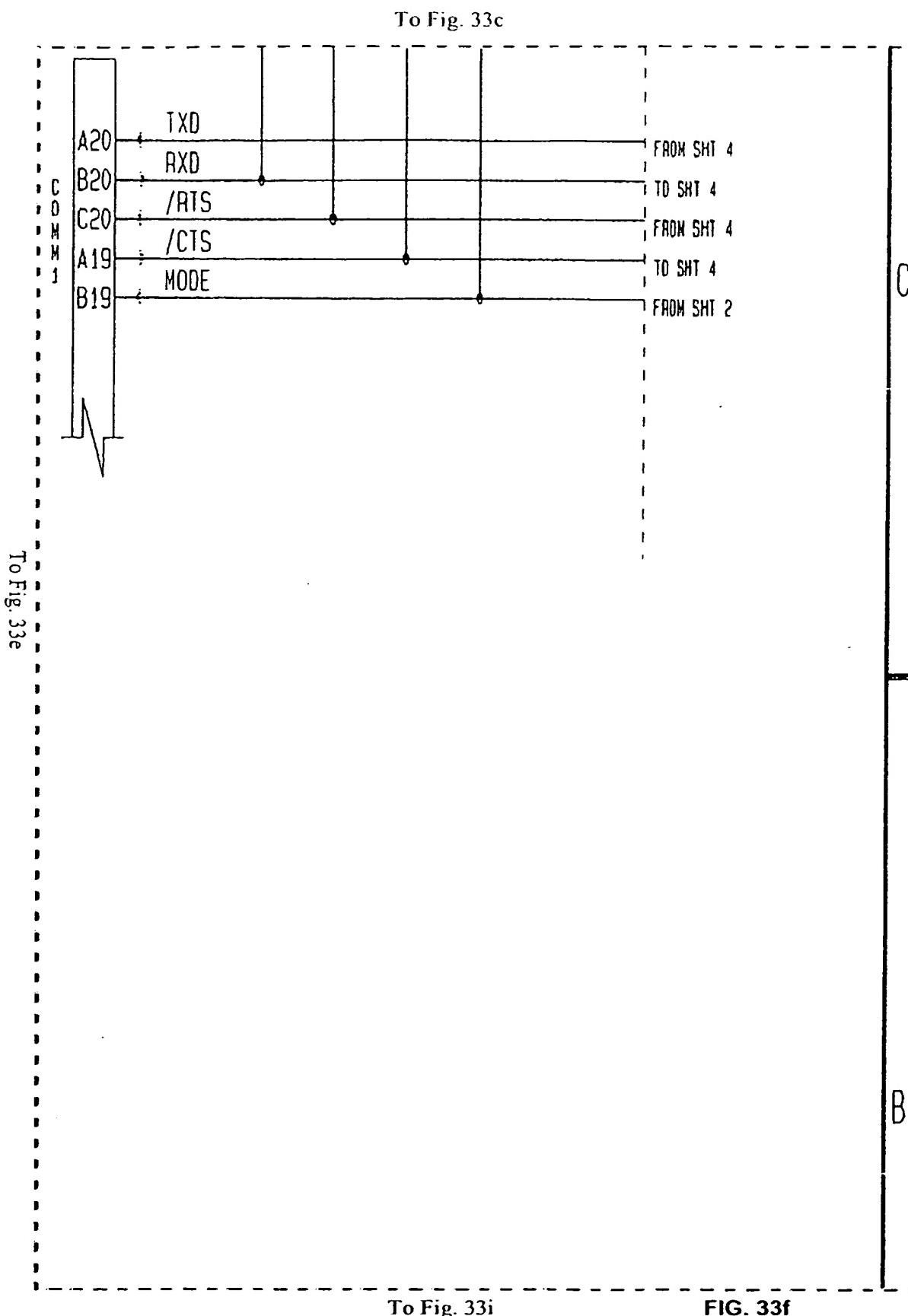


FIG. 33d

To Fig. 33b





§ § § j-07

To Fig. 33d

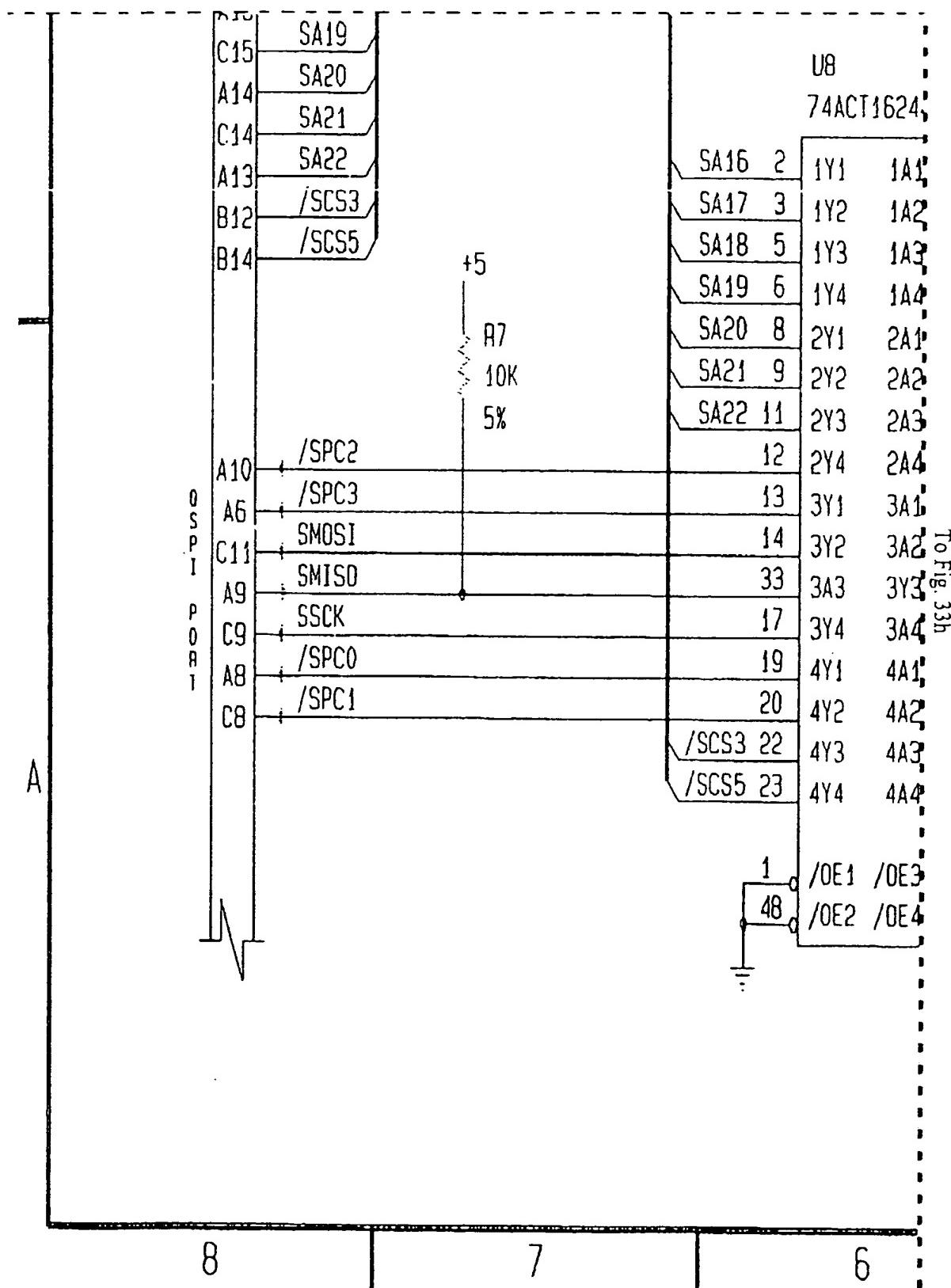


FIG. 33g

89 707

To Fig. 33c

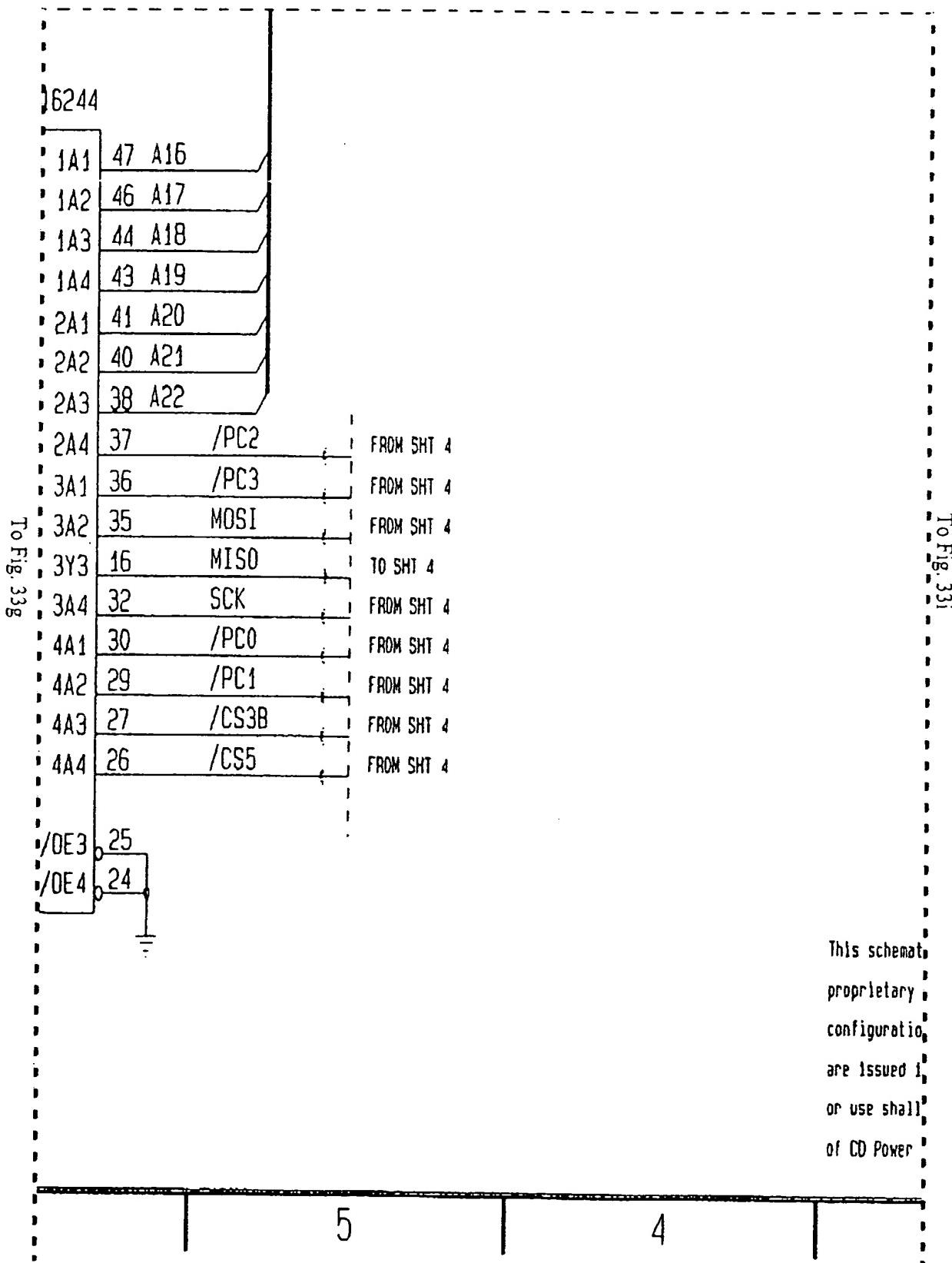


FIG. 33h

To Fig. 33f

To Fig. 33h

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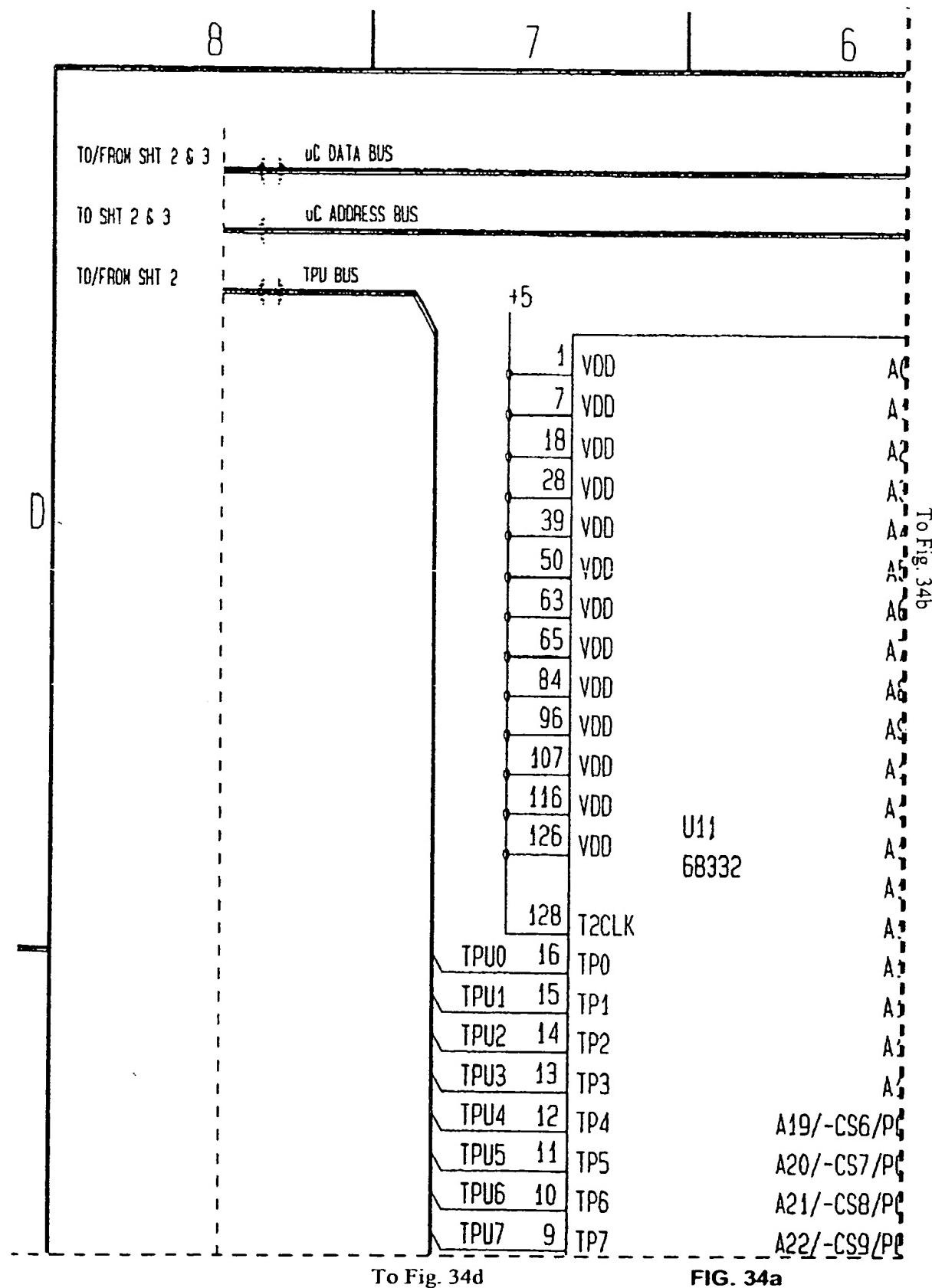
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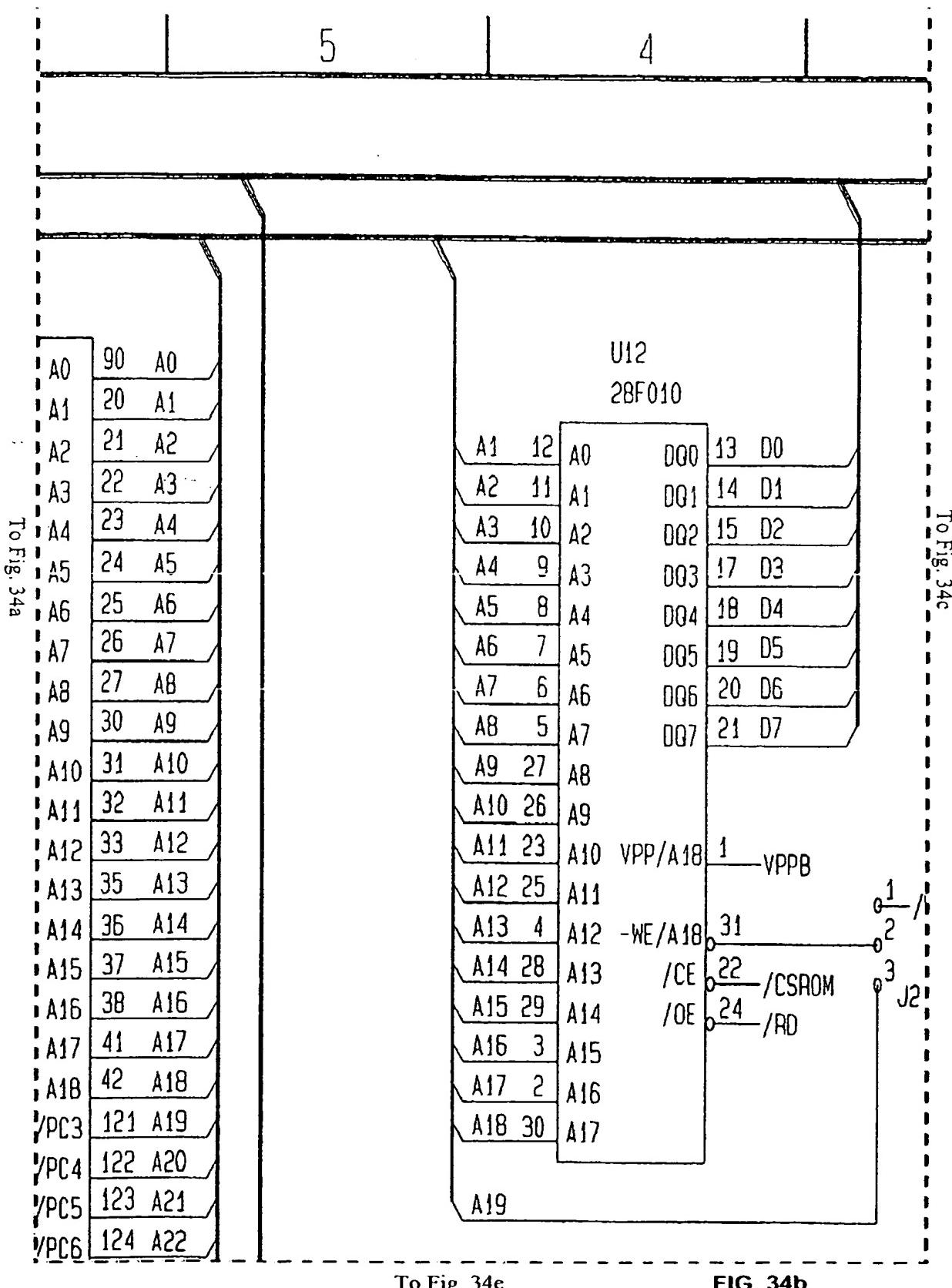
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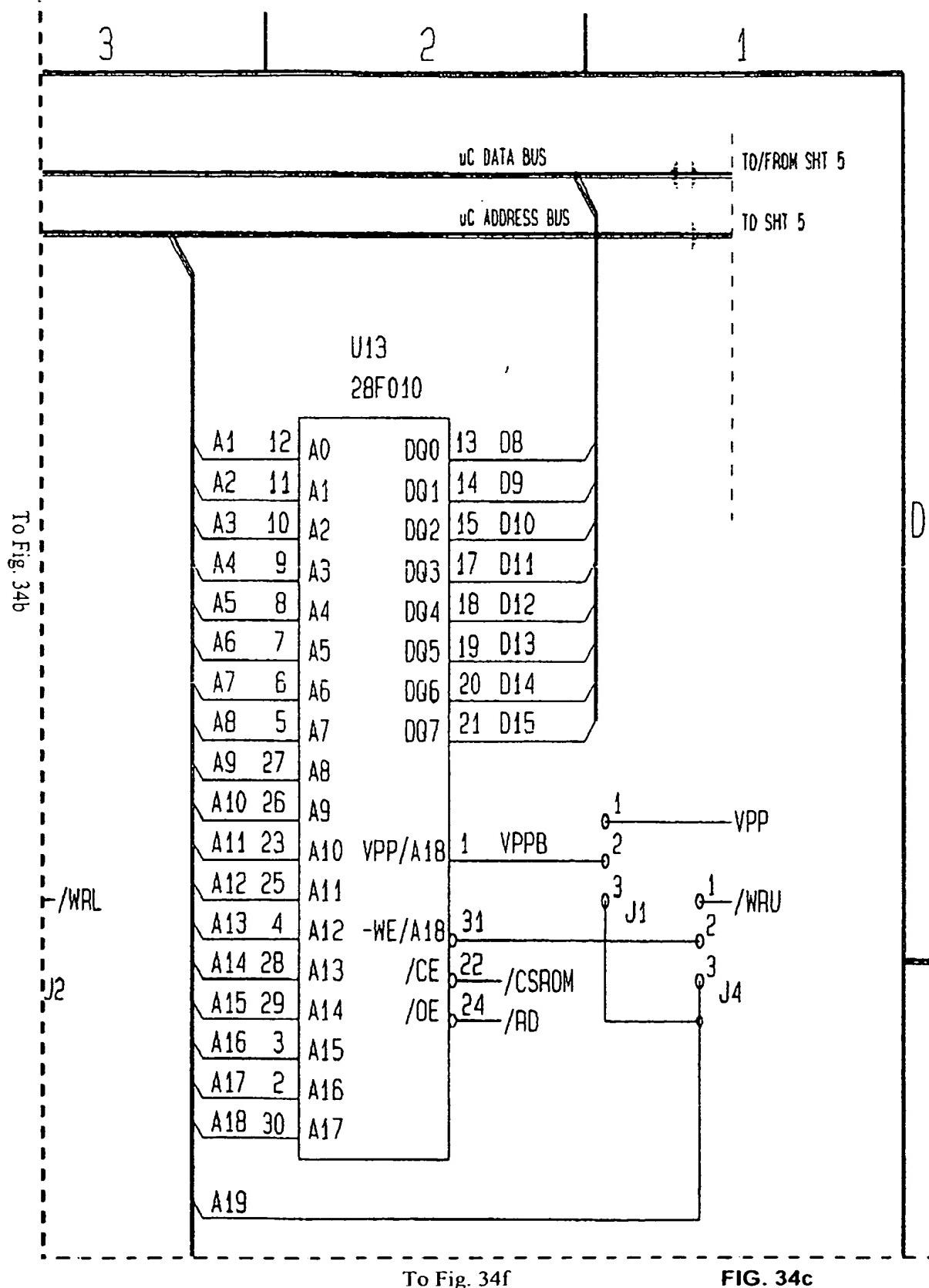
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FIG. 33i

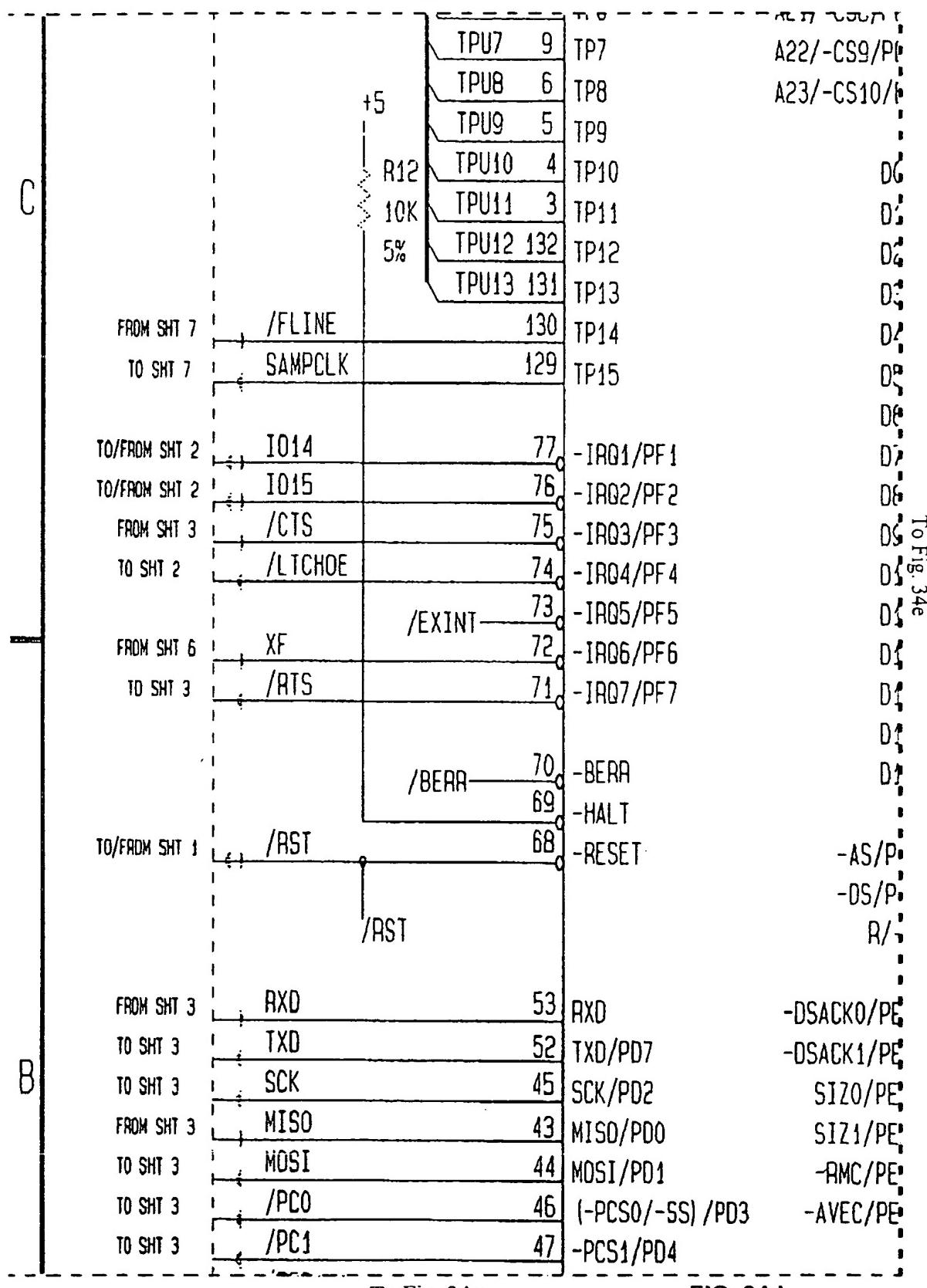
91 06 207







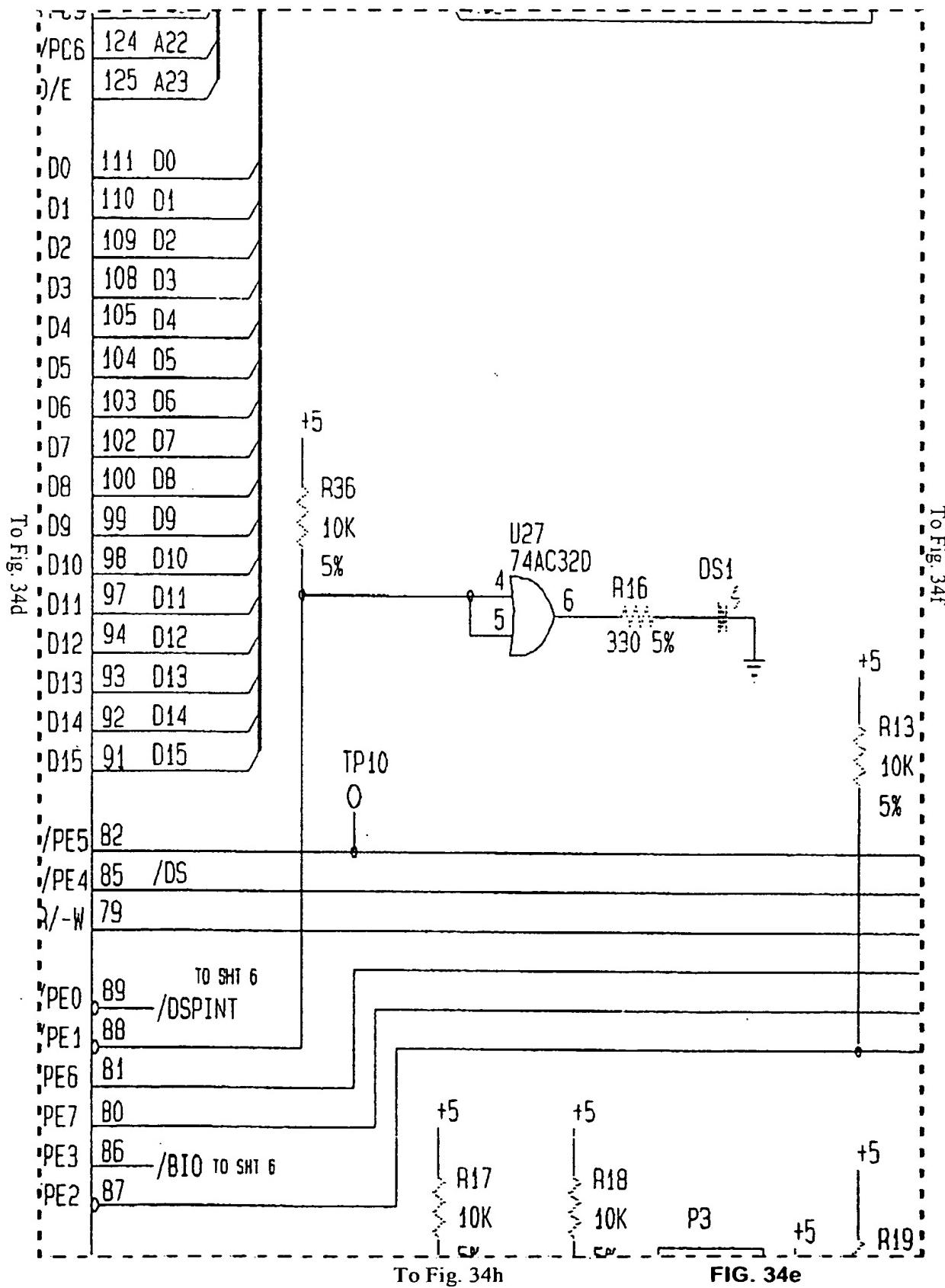
To Fig. 34a



To Fig. 34g

FIG. 34d

To Fig. 34b

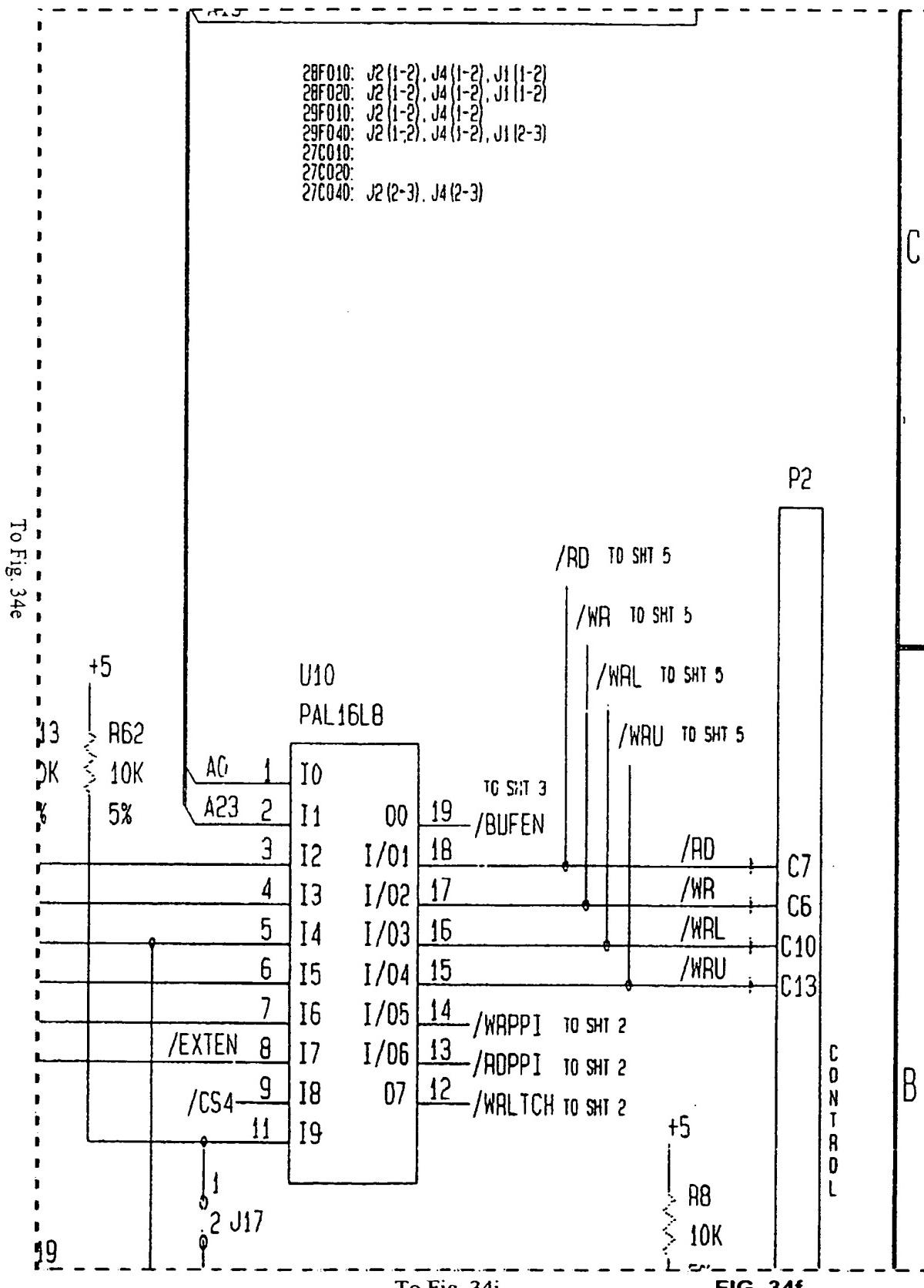


To Fig. 34h

FIG. 34e

96 8 207

To Fig. 34c



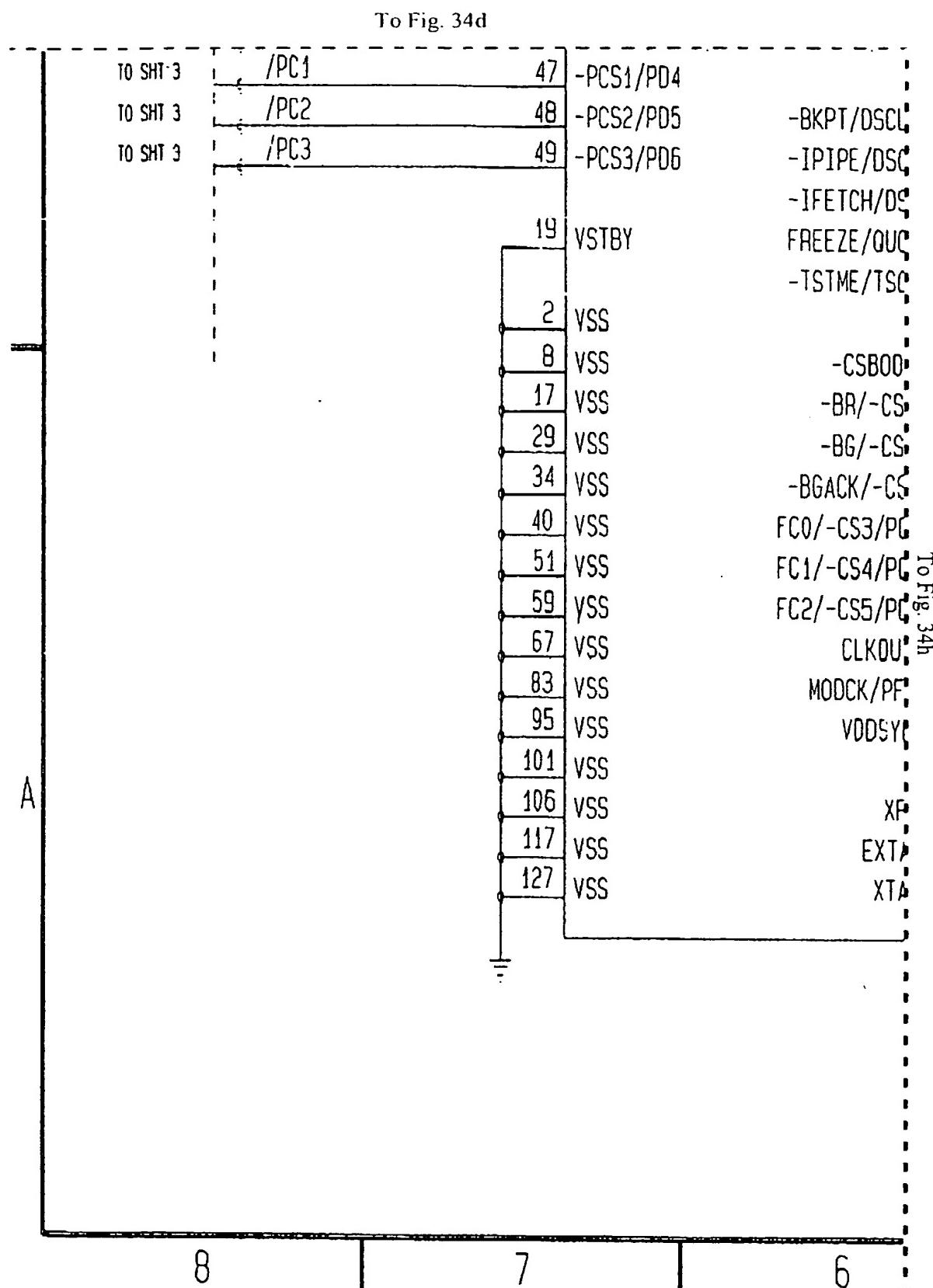


FIG. 34g

98 7 207

To Fig. 34e

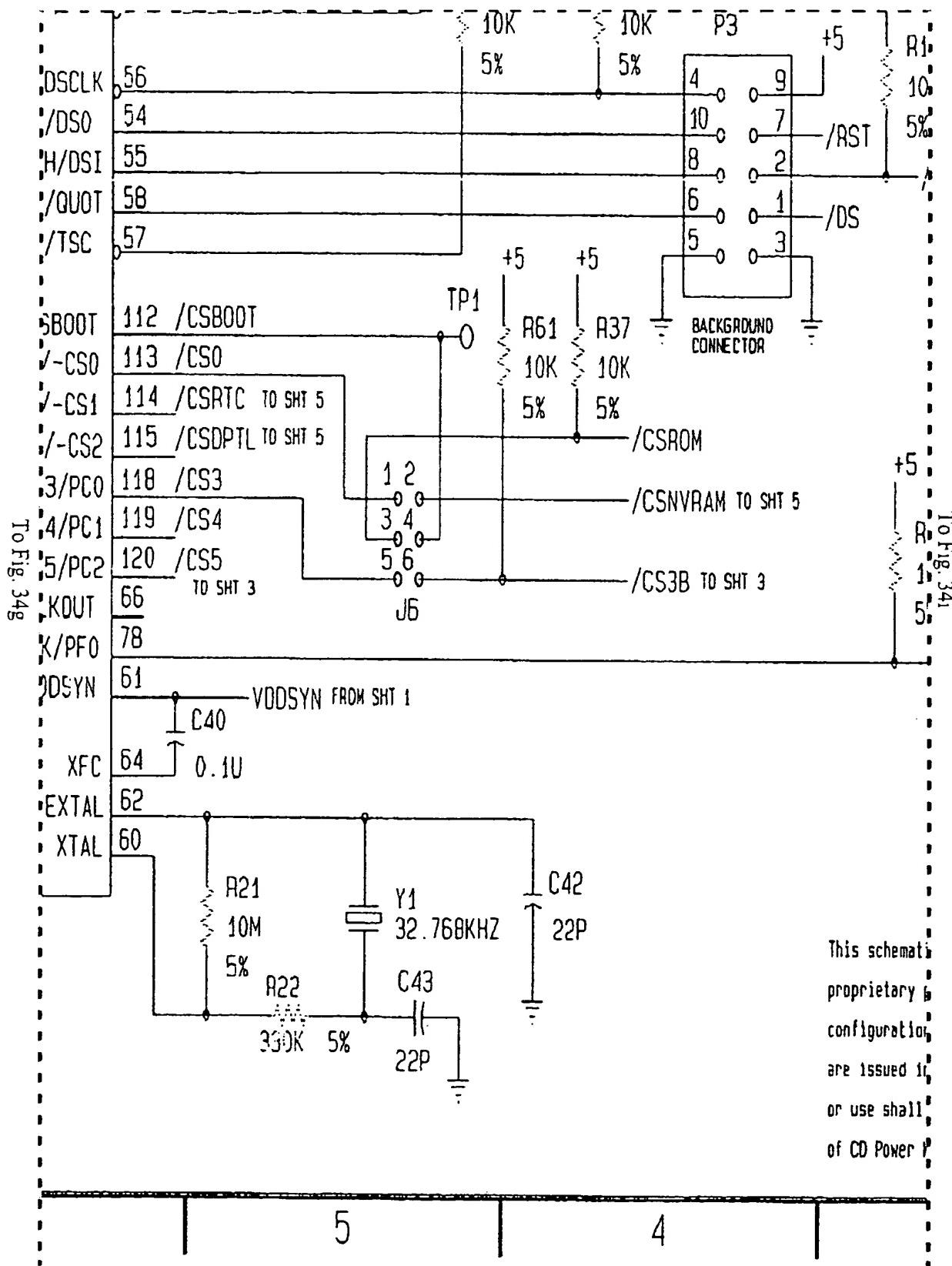
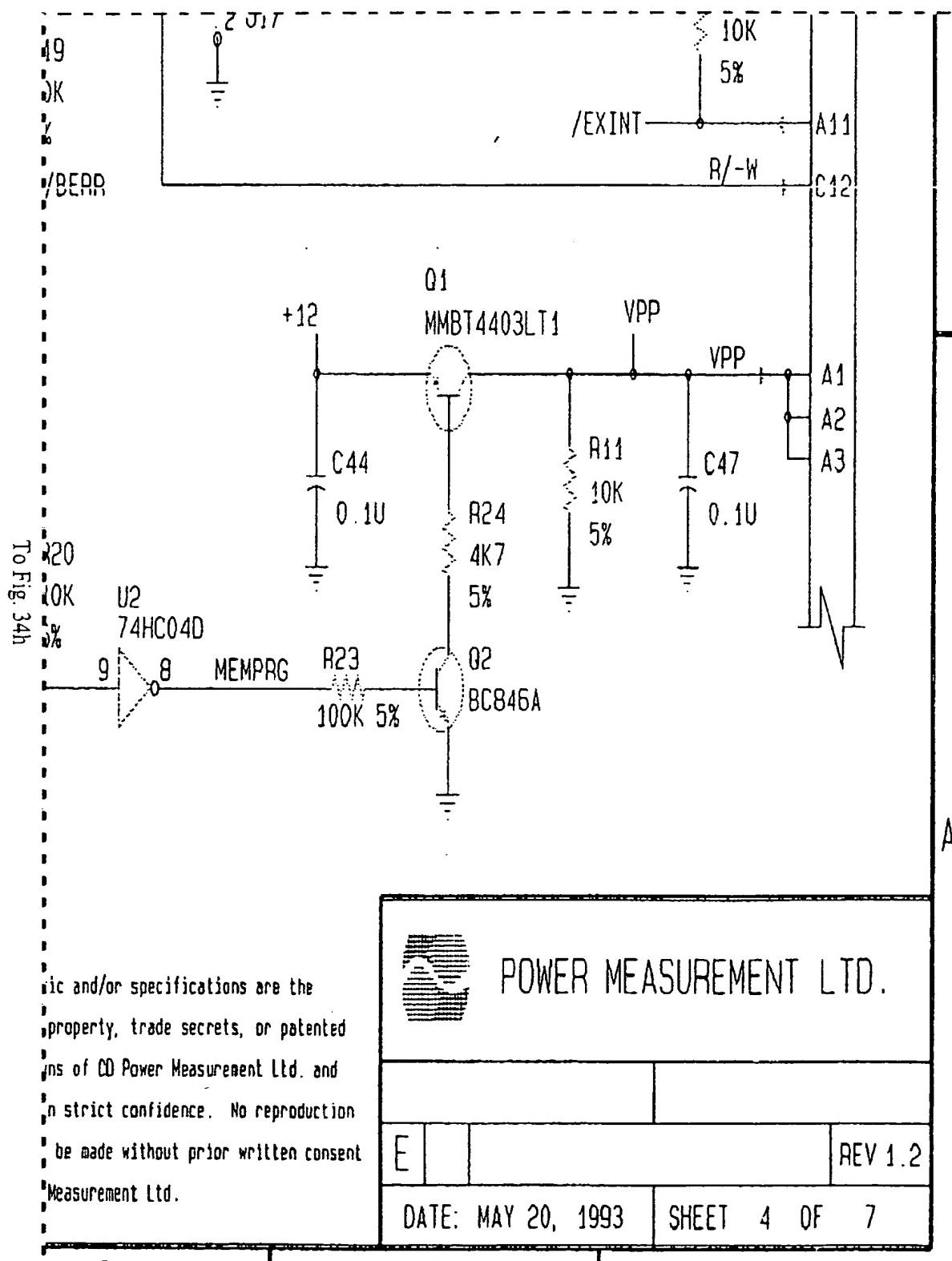


FIG. 34h

99 06 307

To Fig. 34f



100 8 307

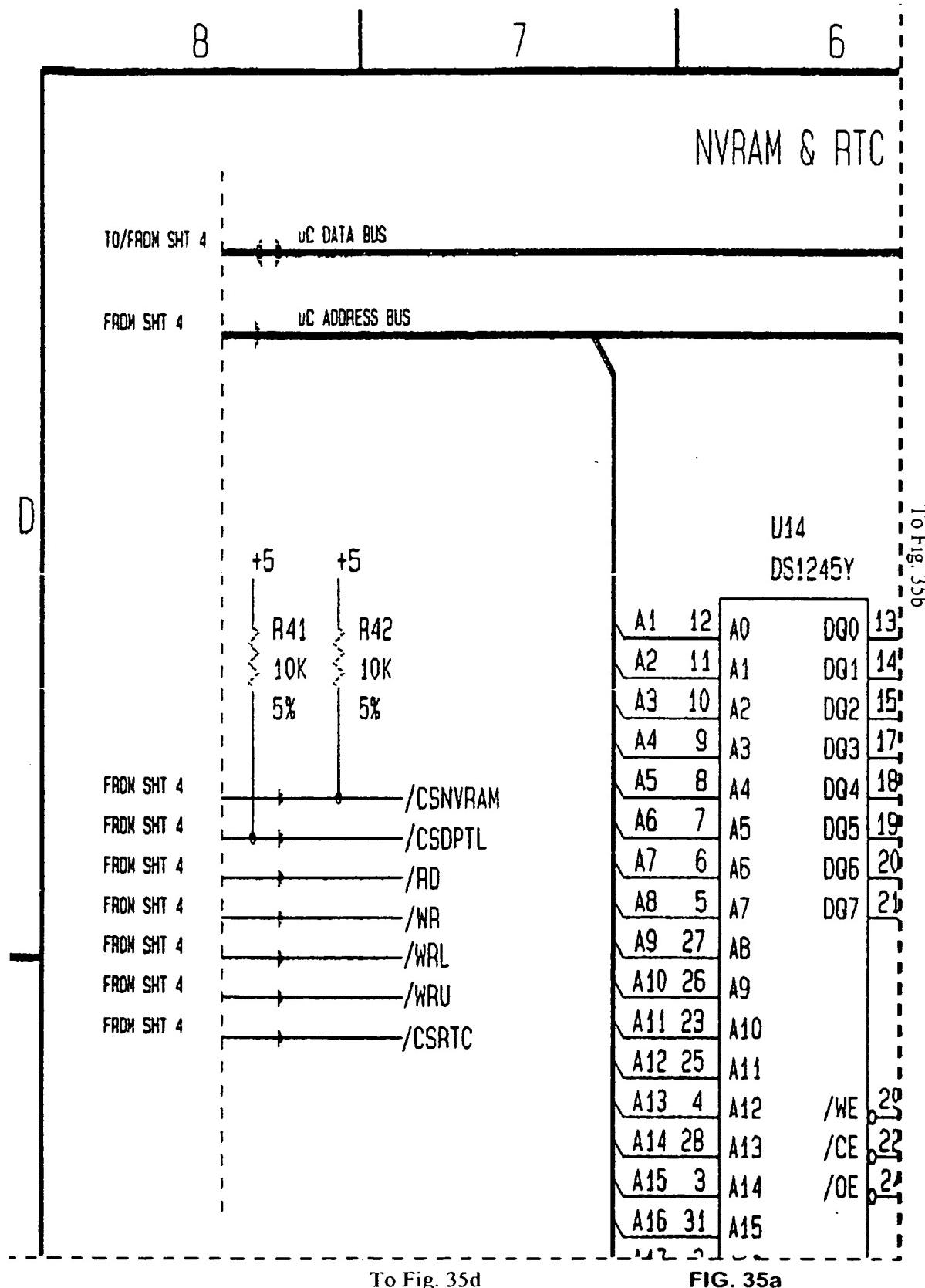


FIG. 35a

101 6 207

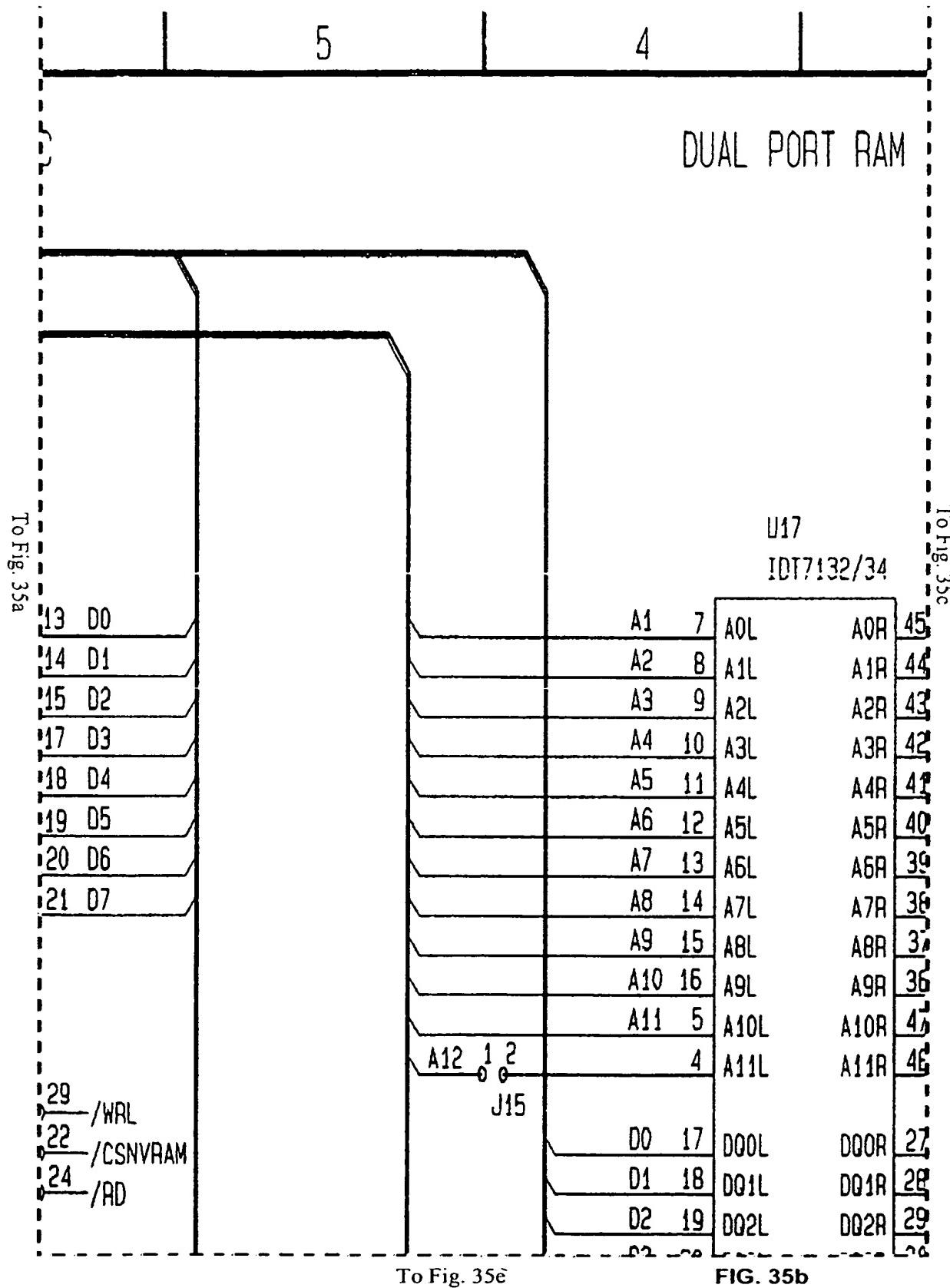
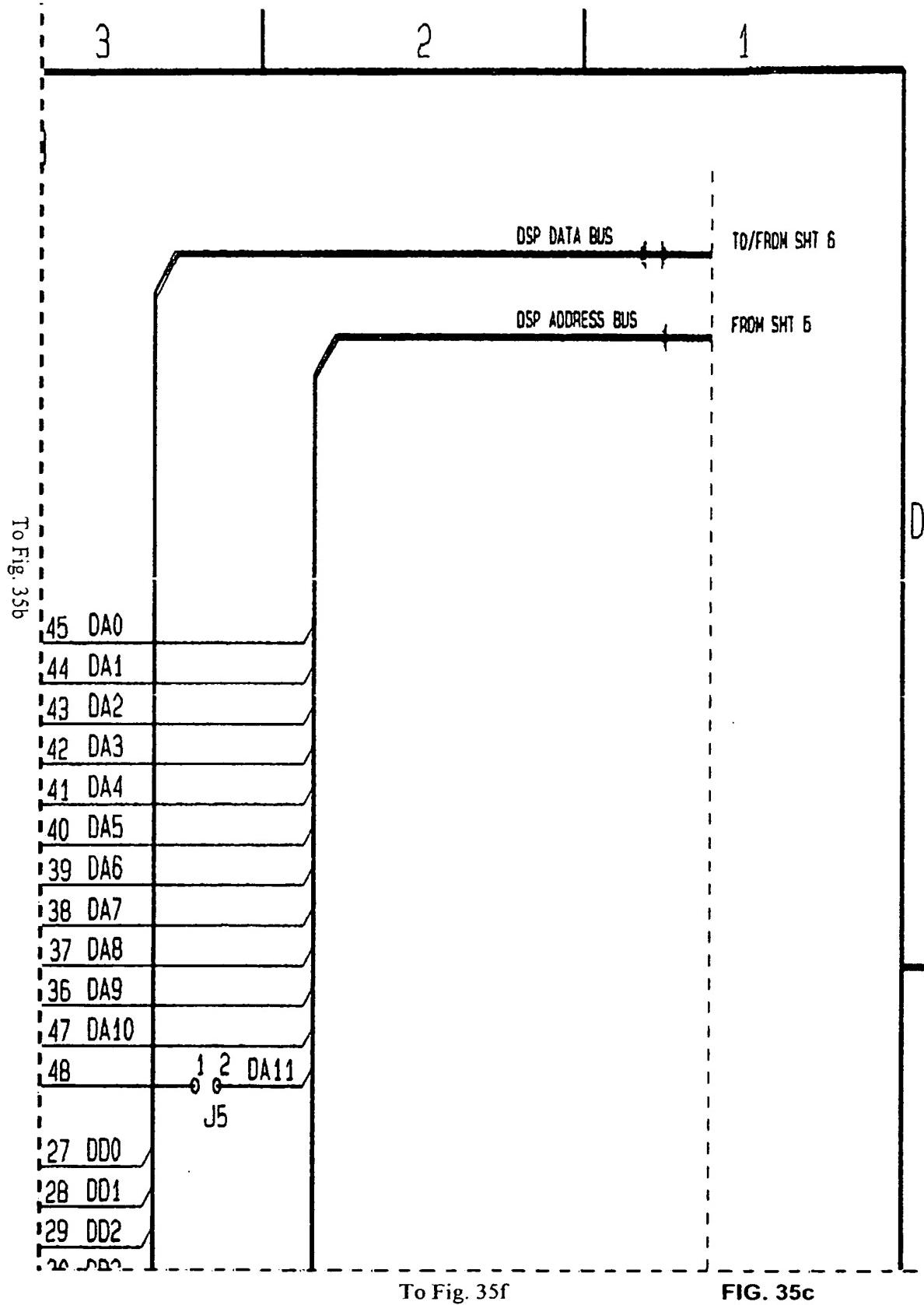


FIG. 35b

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To Fig. 35a

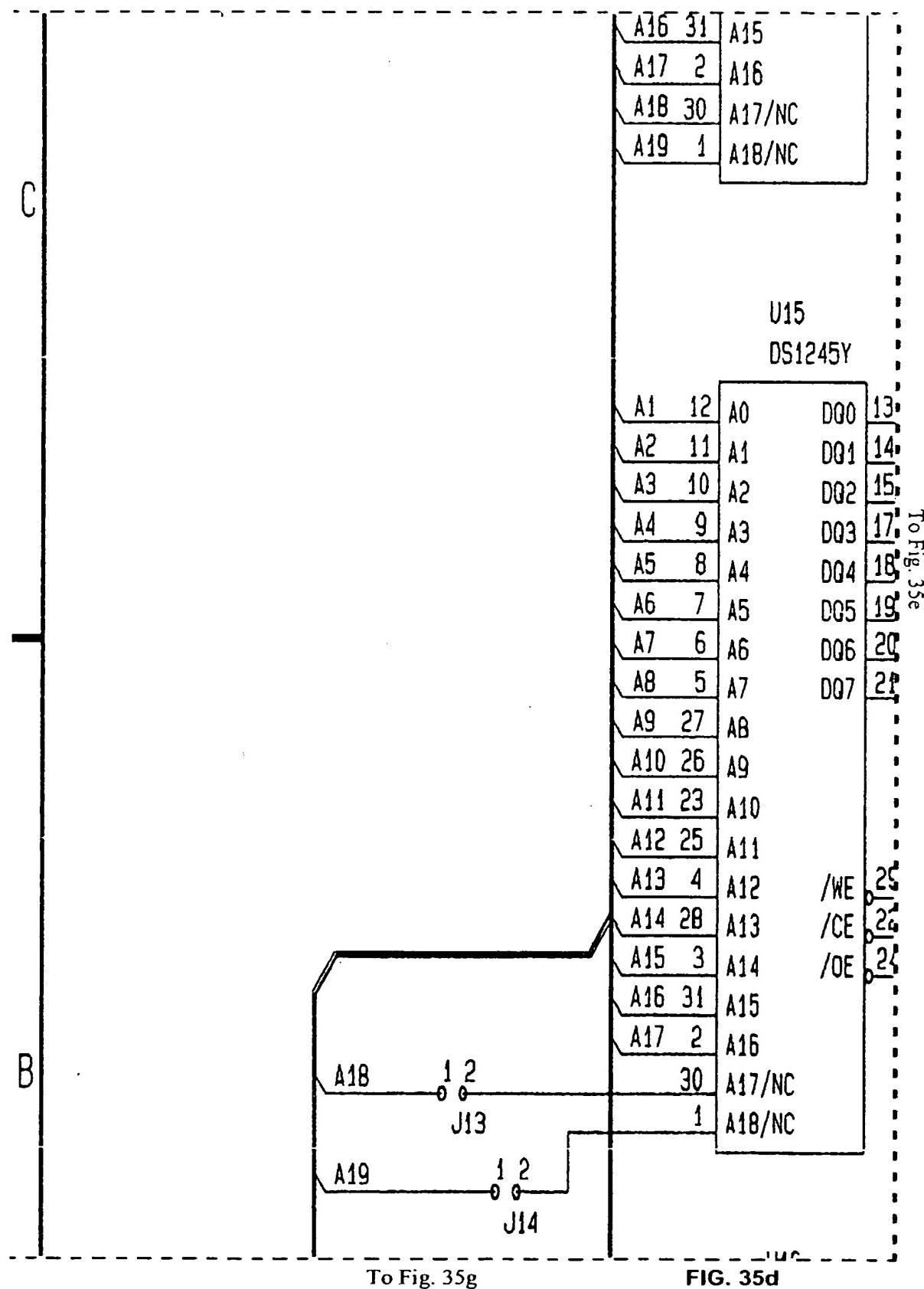
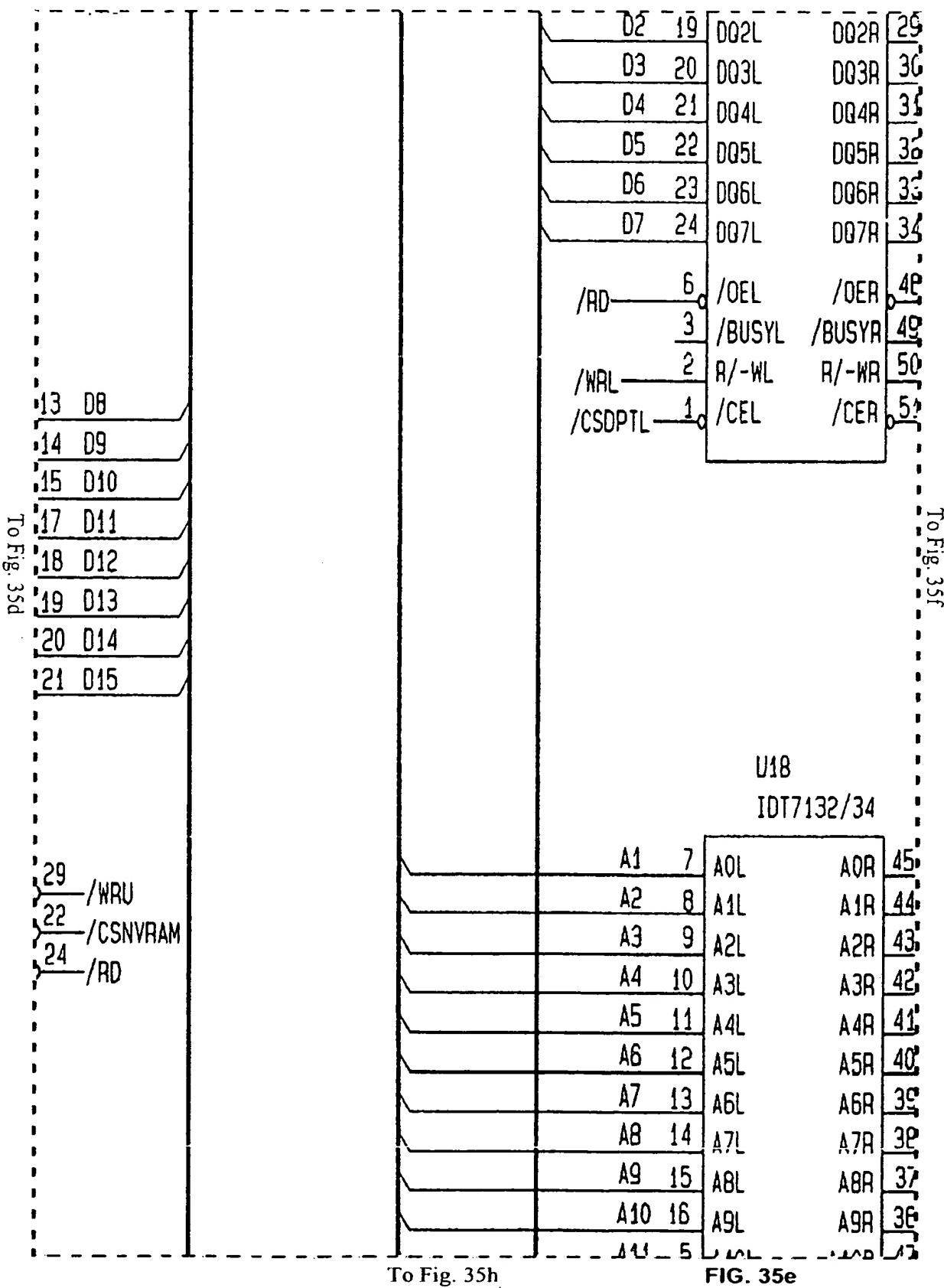
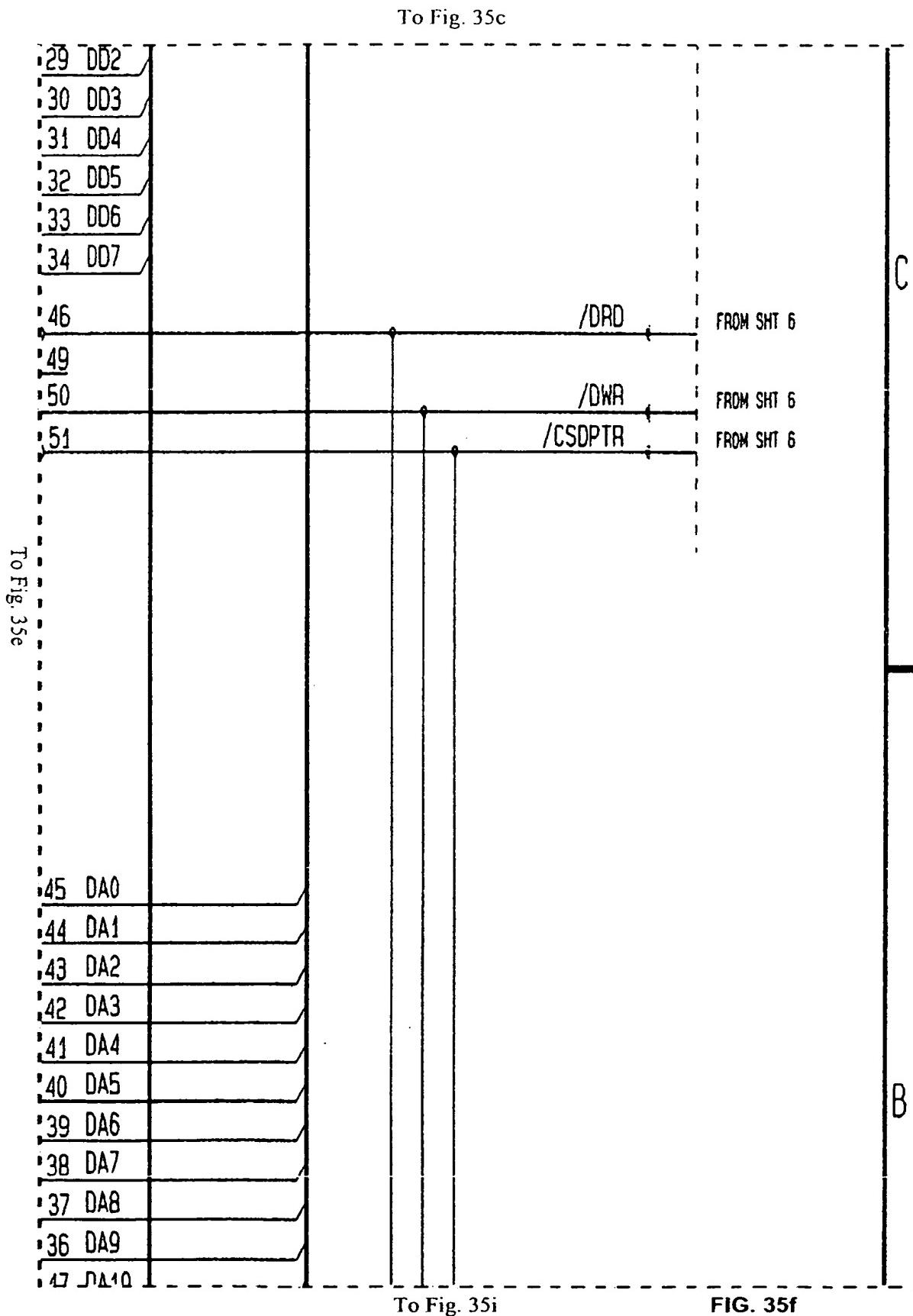


FIG. 35d

104 08 307

To Fig. 35b





106 Q. 3-07

Attorney Docket No. 6270/76, Serial No. 10/068,431

To Fig. 35d

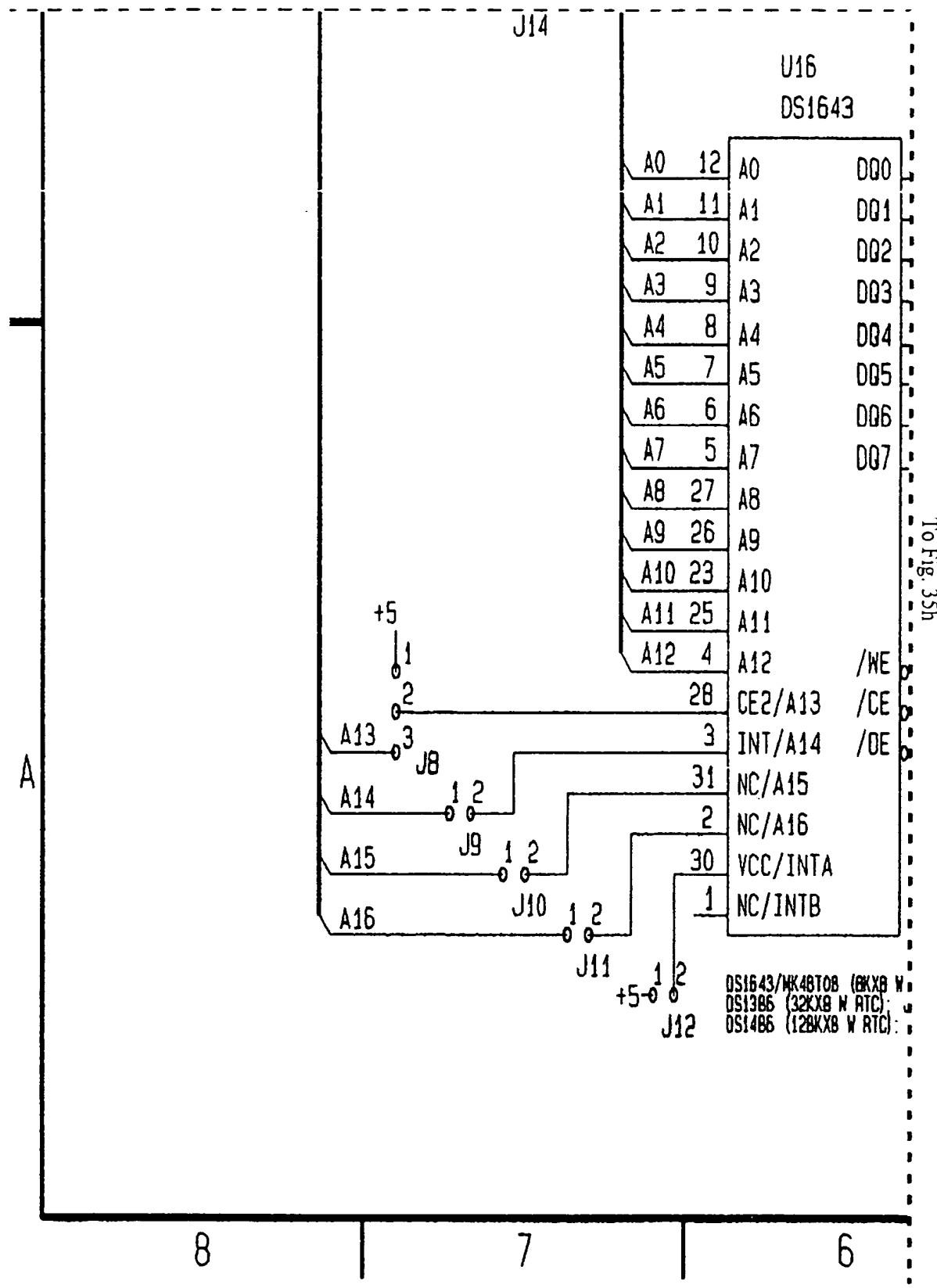
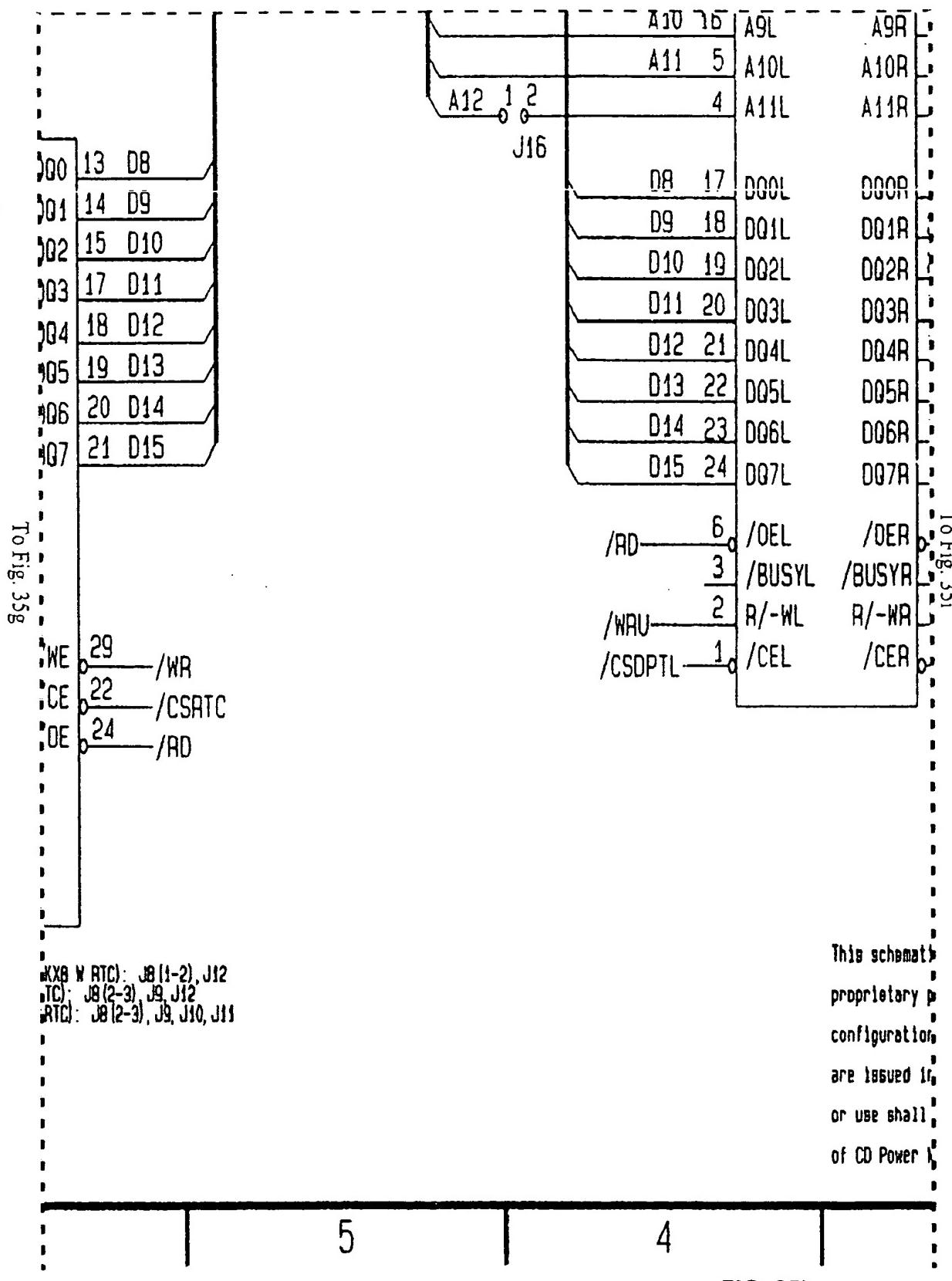


FIG. 35g

107 6 207

To Fig. 35e



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108 07 207

To Fig. 35f

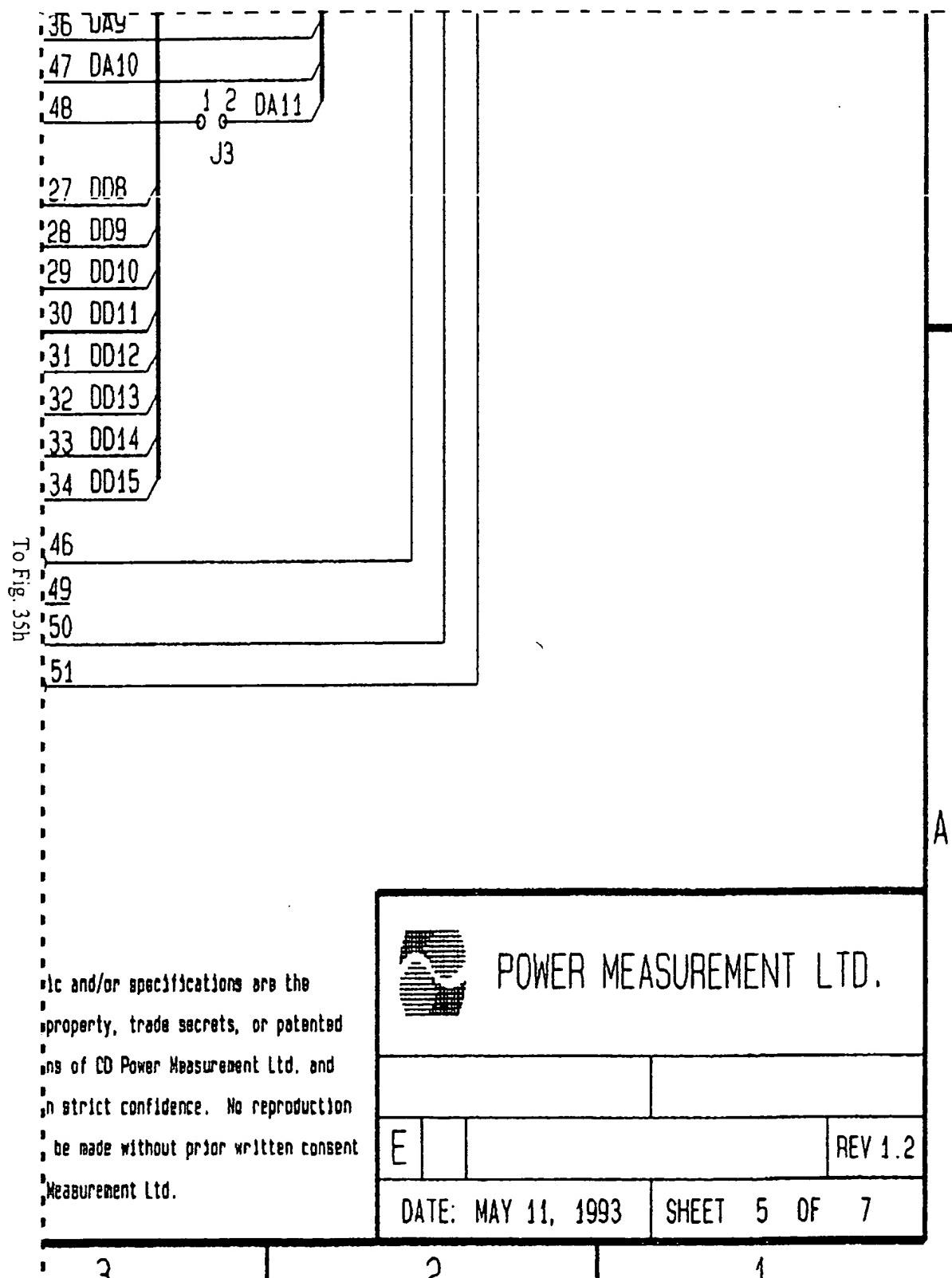


FIG. 35i

109 76207

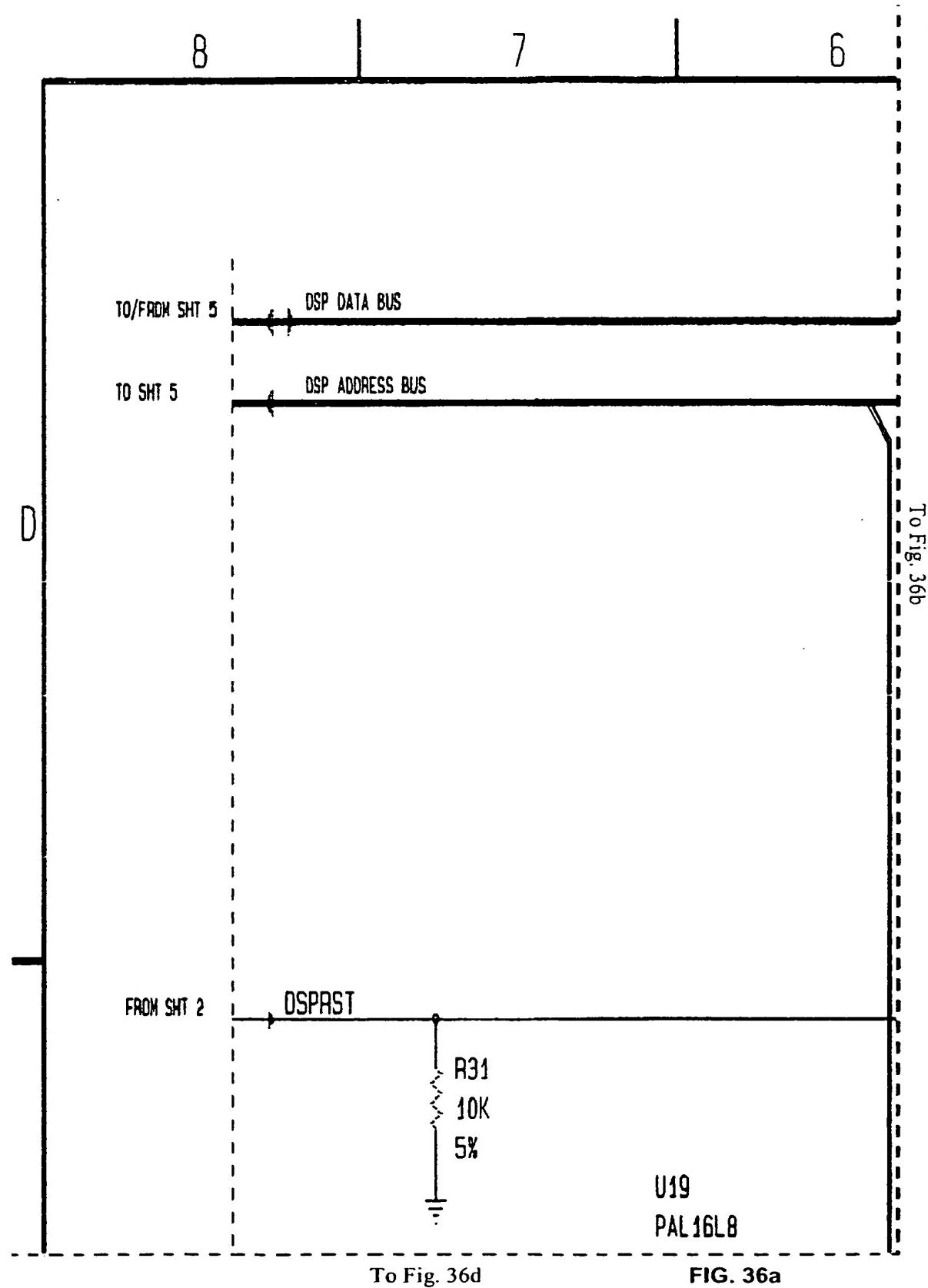
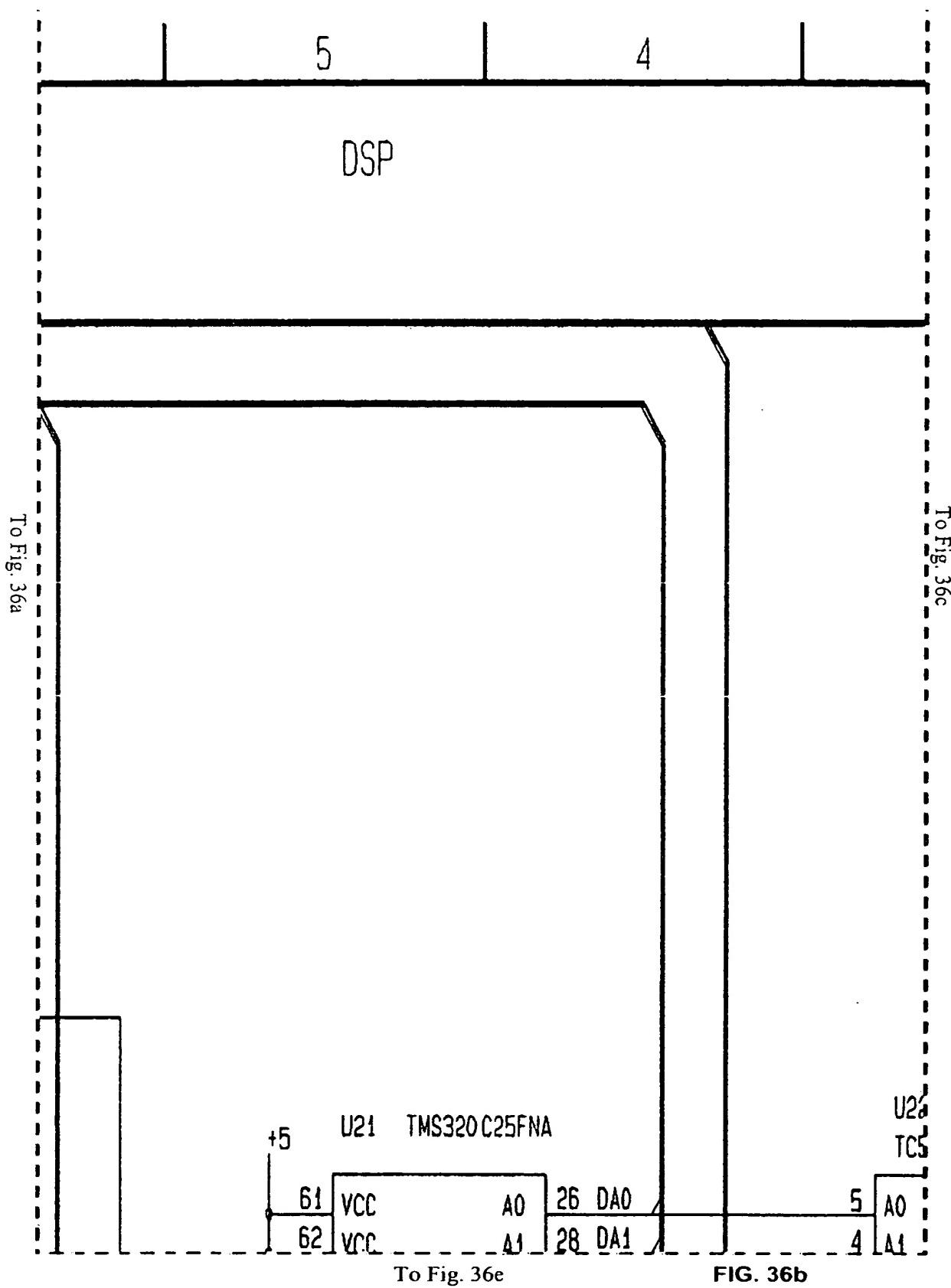
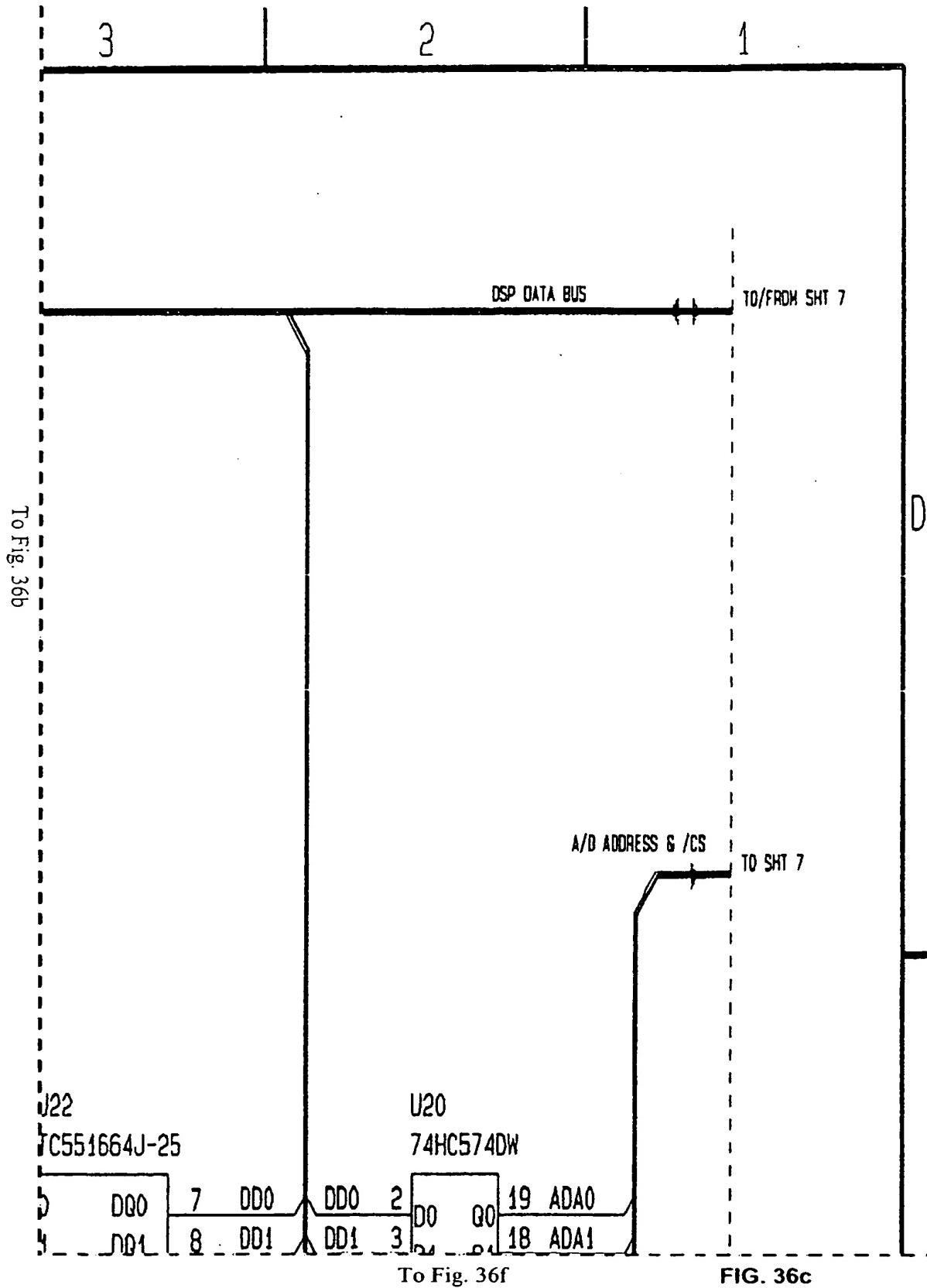


FIG. 36a

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To Fig. 36a

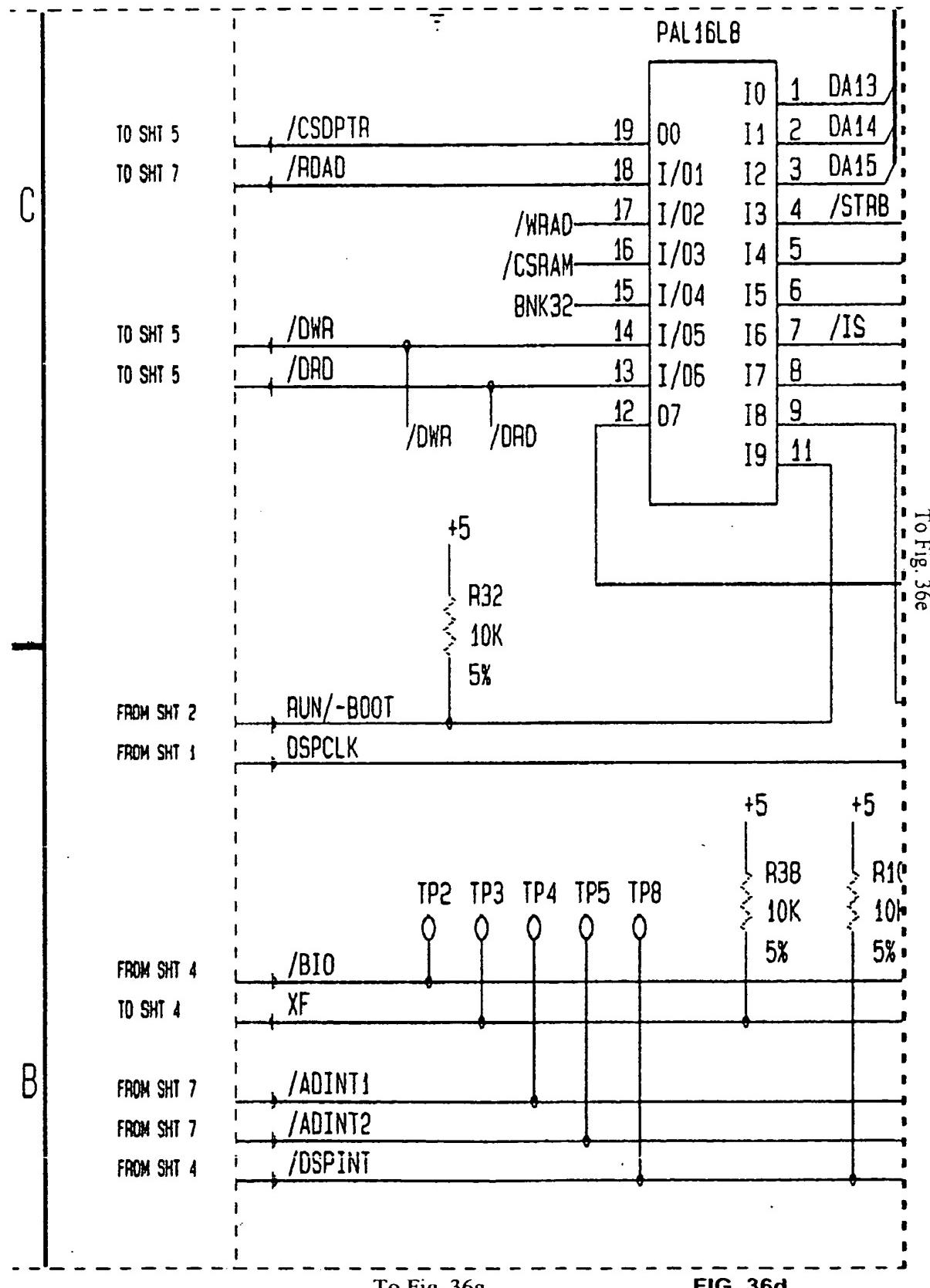
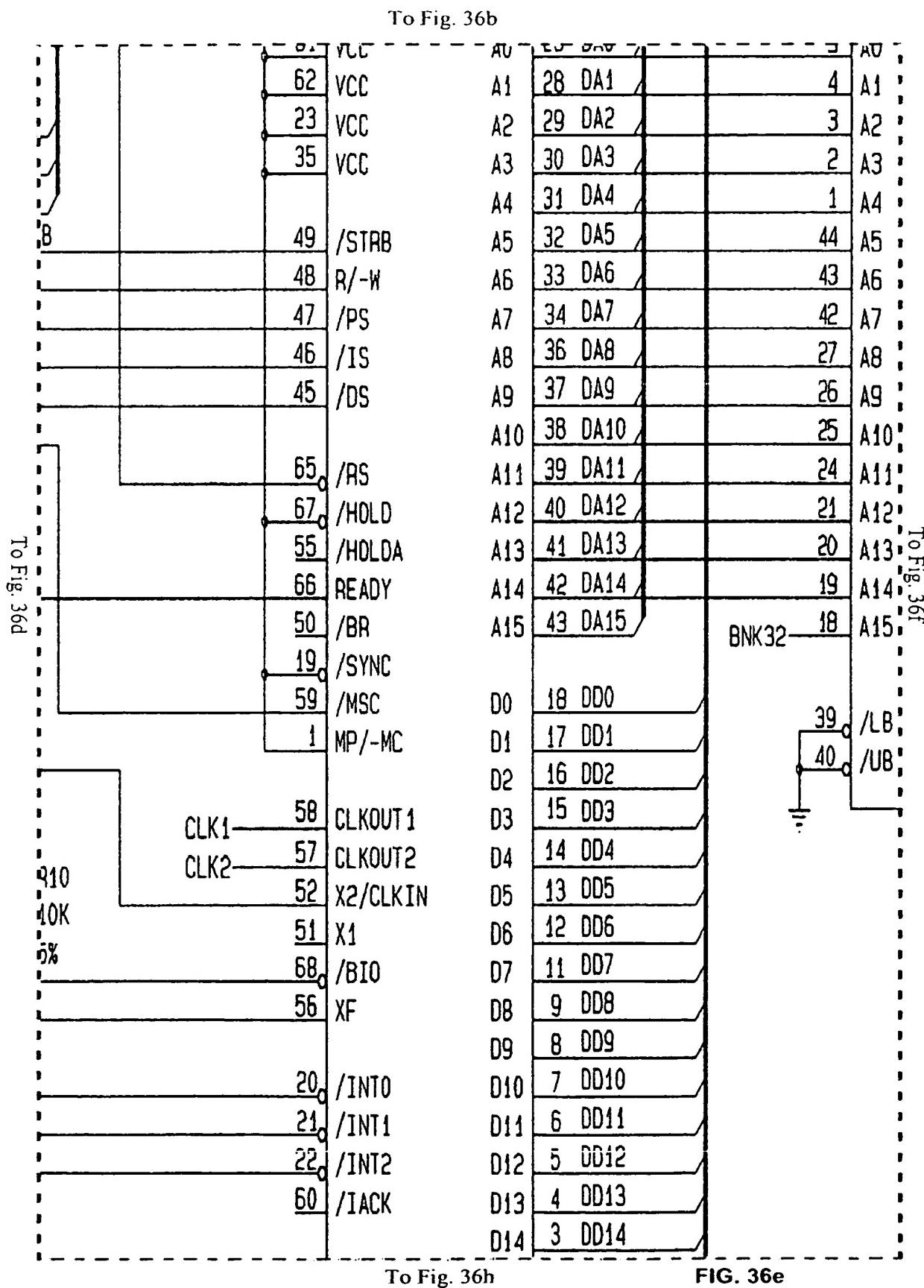


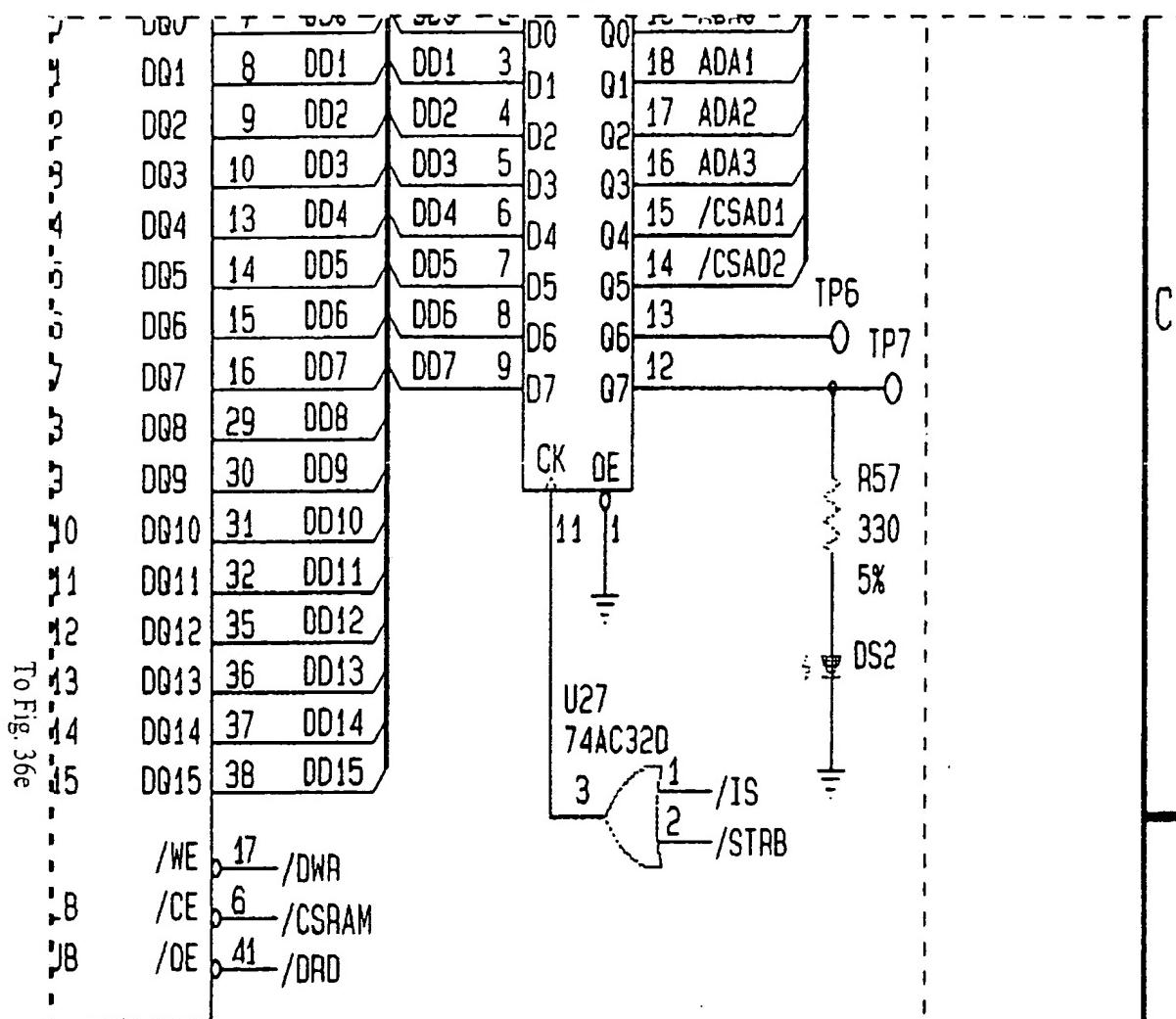
FIG. 36d

113 6 207

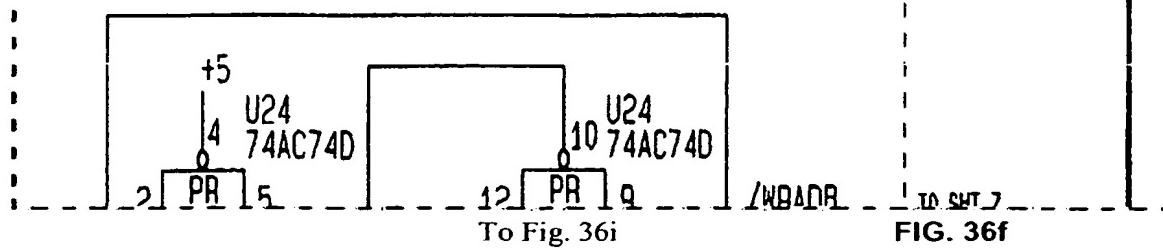


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To Fig. 36c



To Fig. 36e



To Fig. 36d

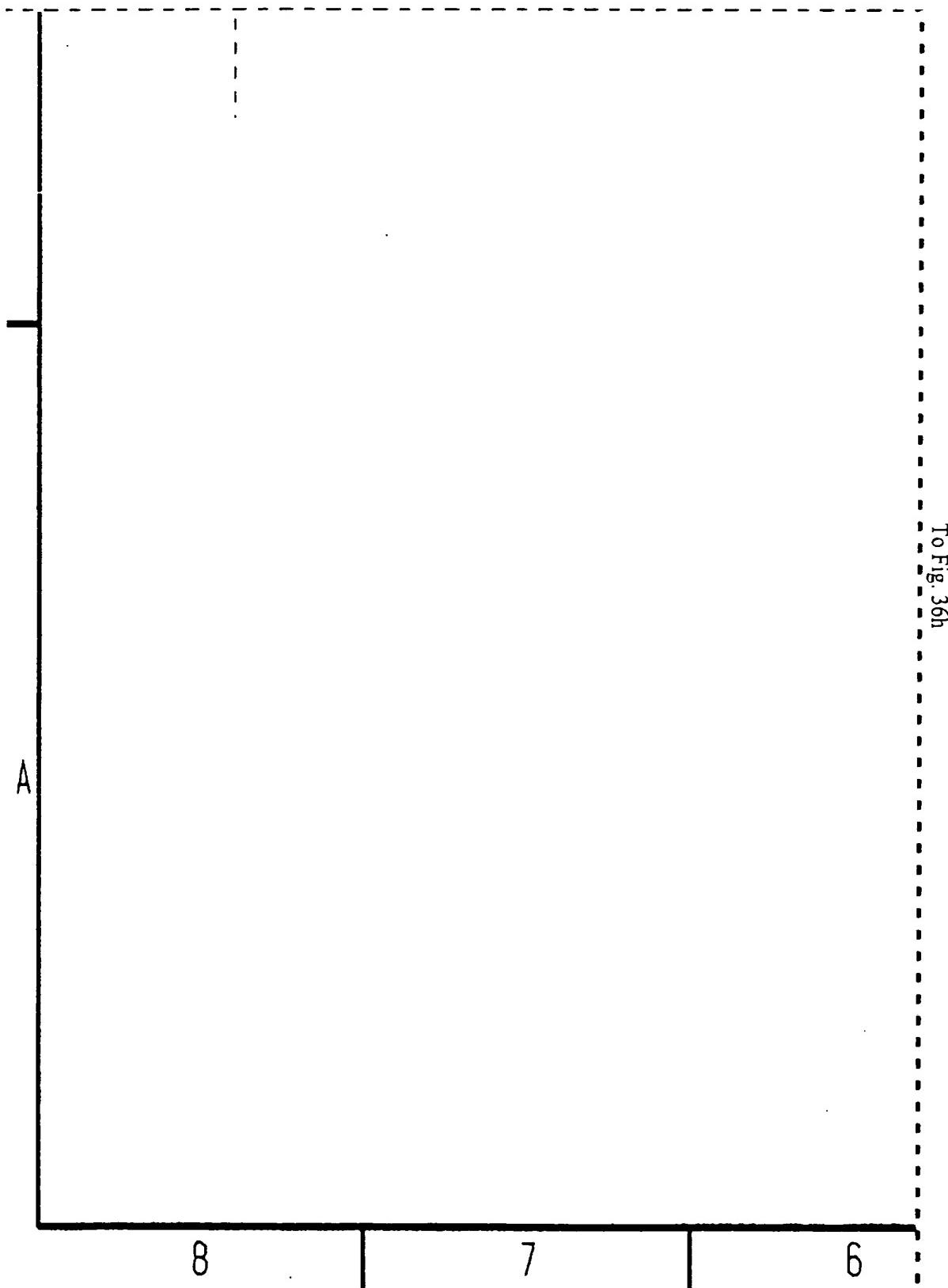


FIG. 36g

116 66 > 07

To Fig. 36e

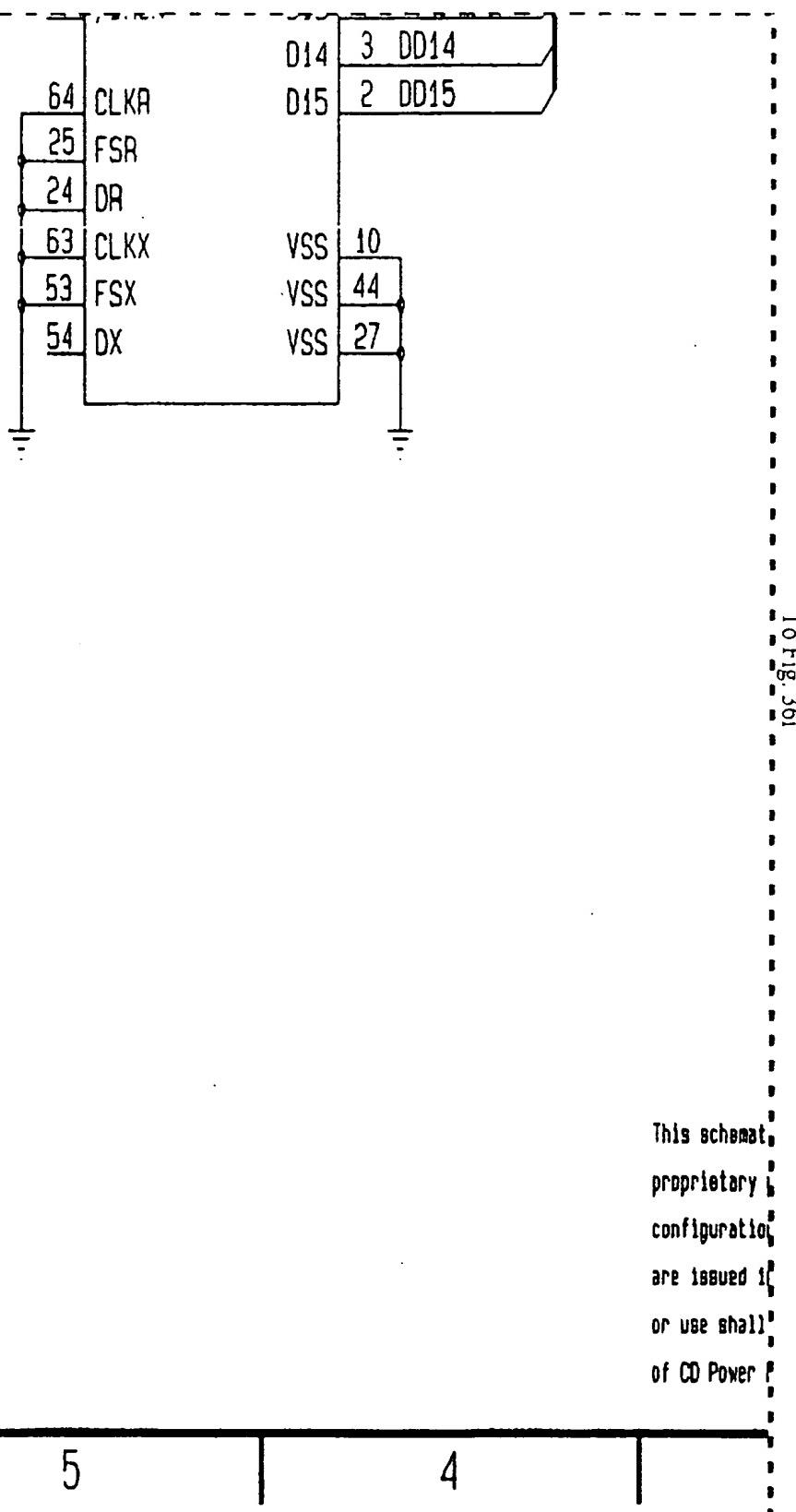
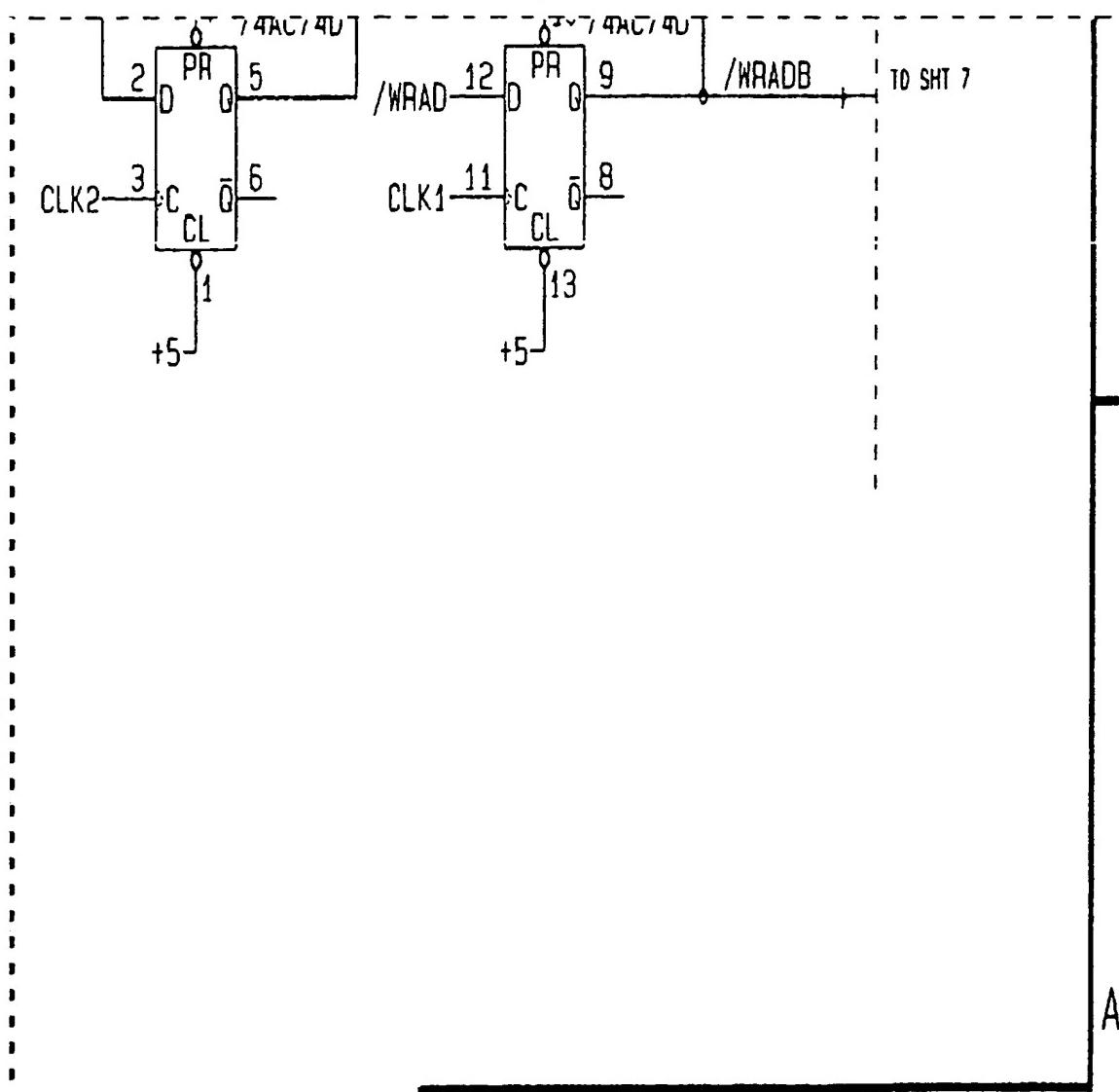


FIG. 36h

117 6 207

To Fig. 36f



To Fig. 36h

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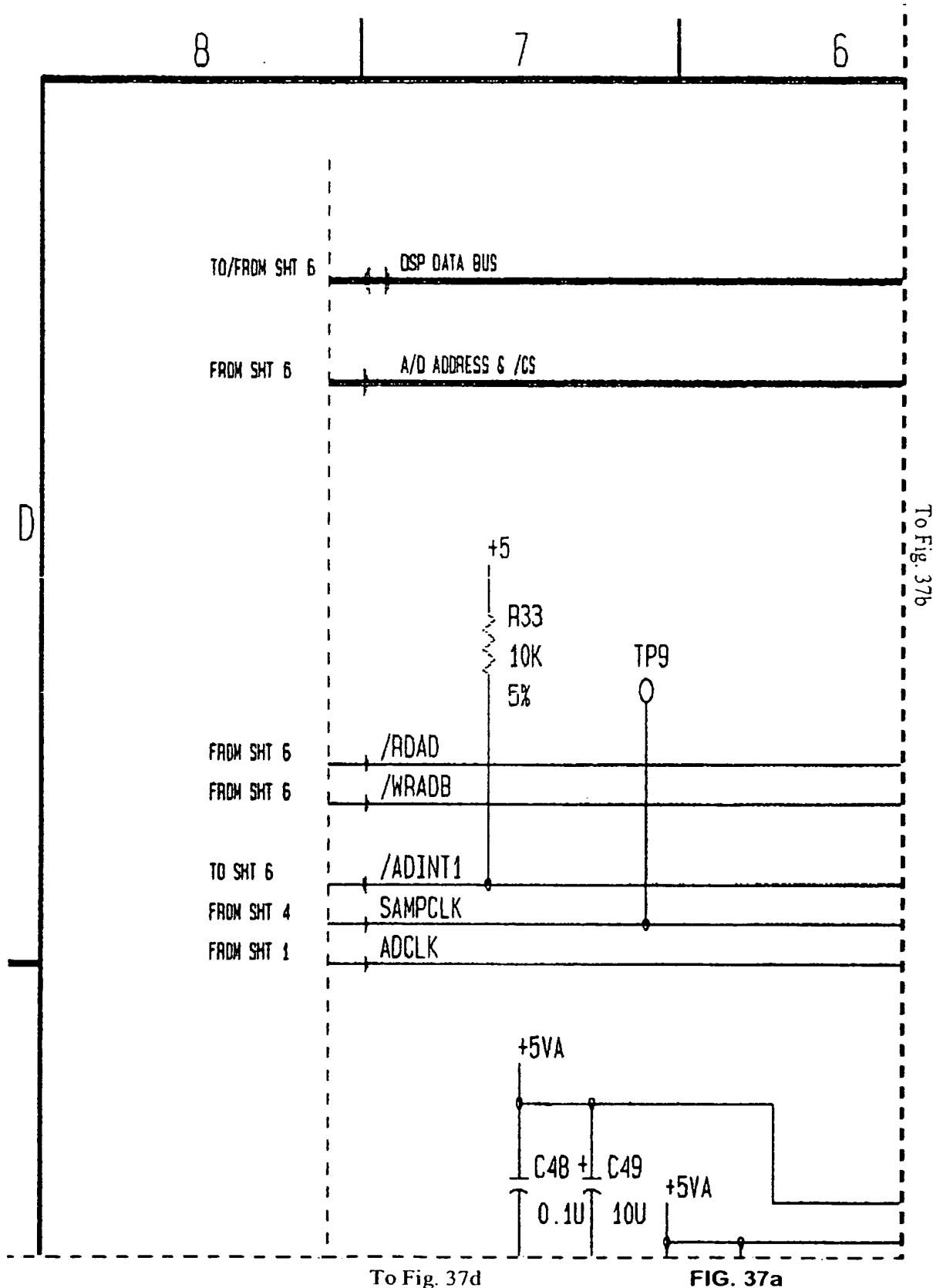
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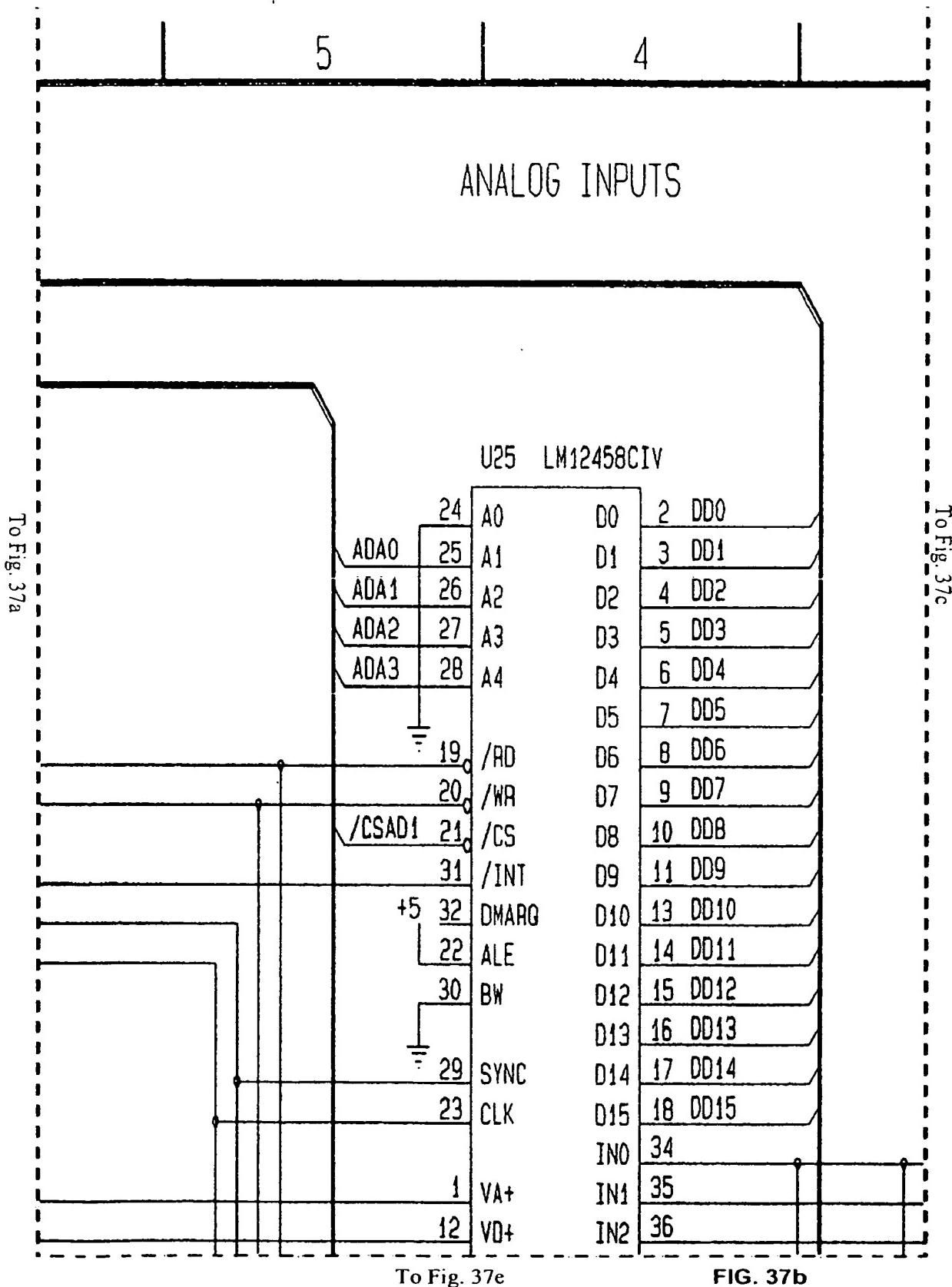
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FIG. 36i

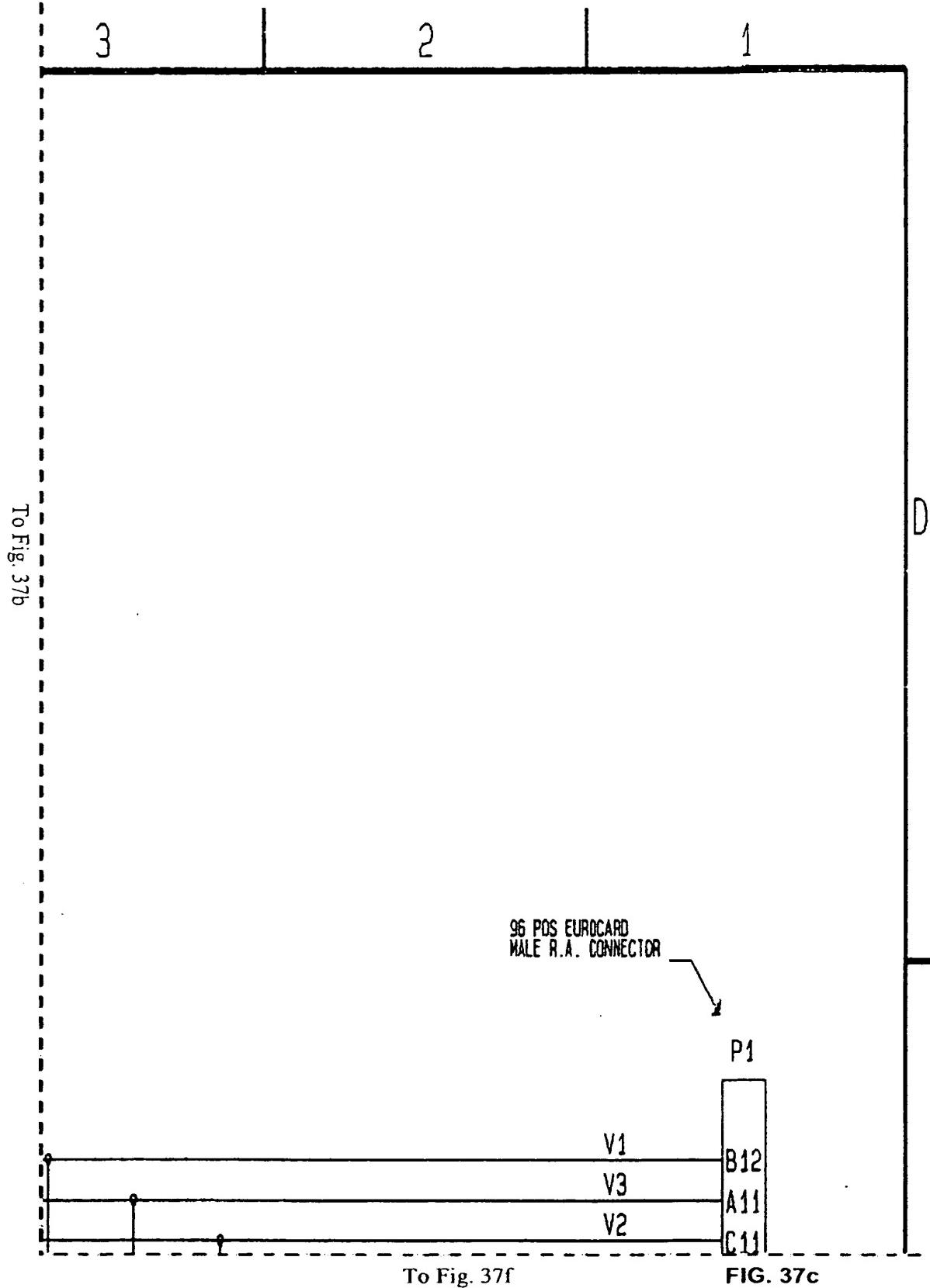
118 37 307

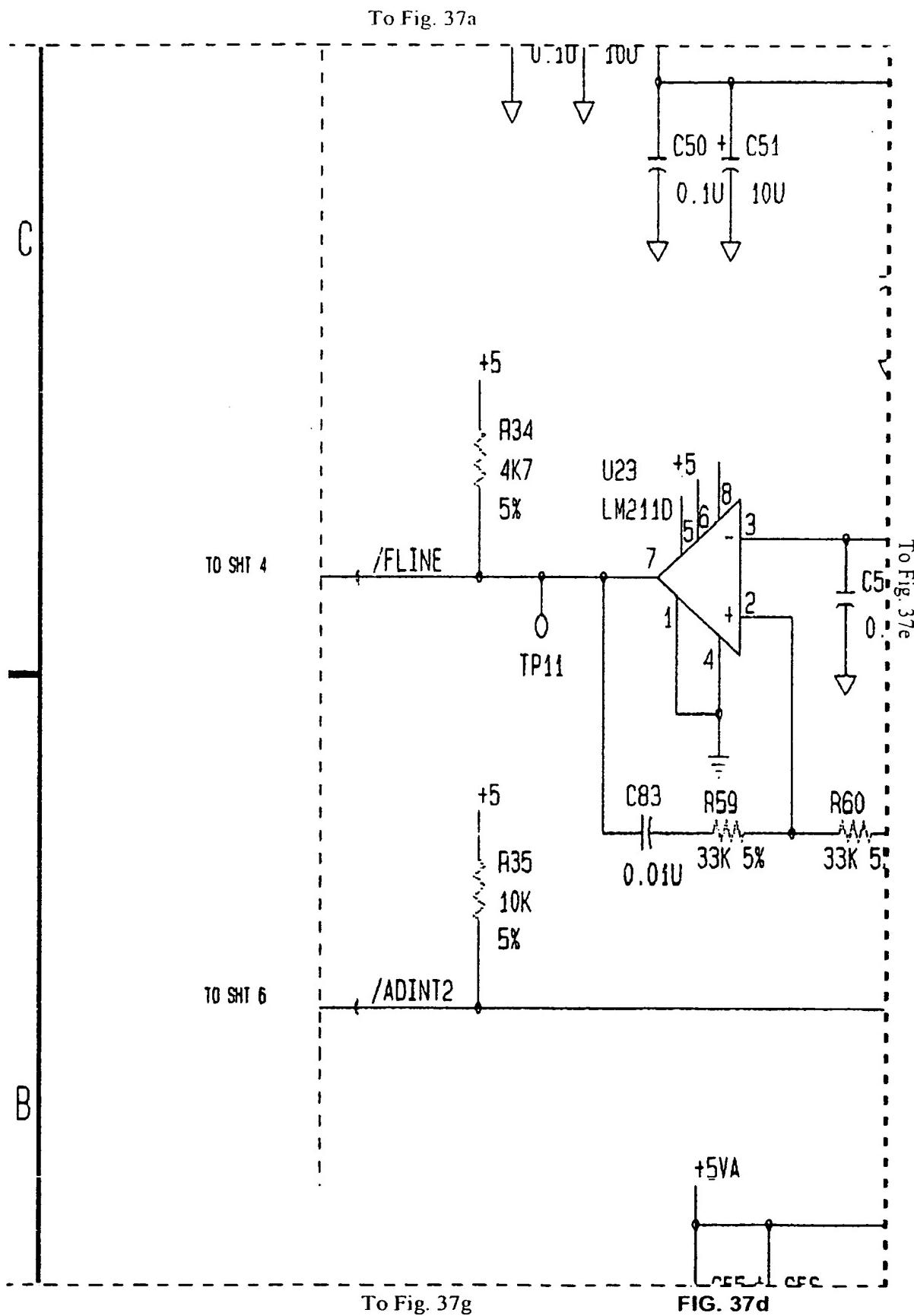


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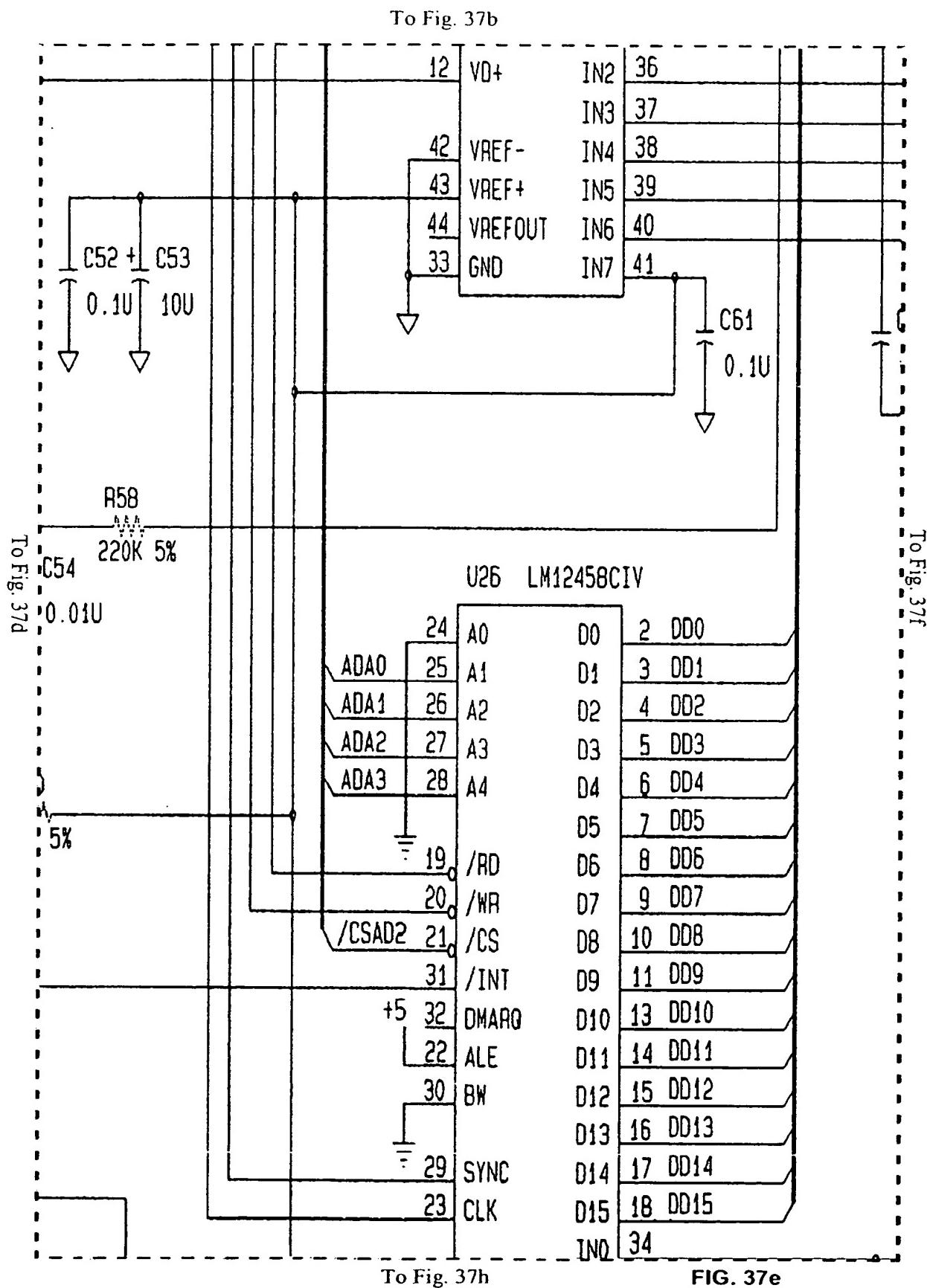


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122 86 207



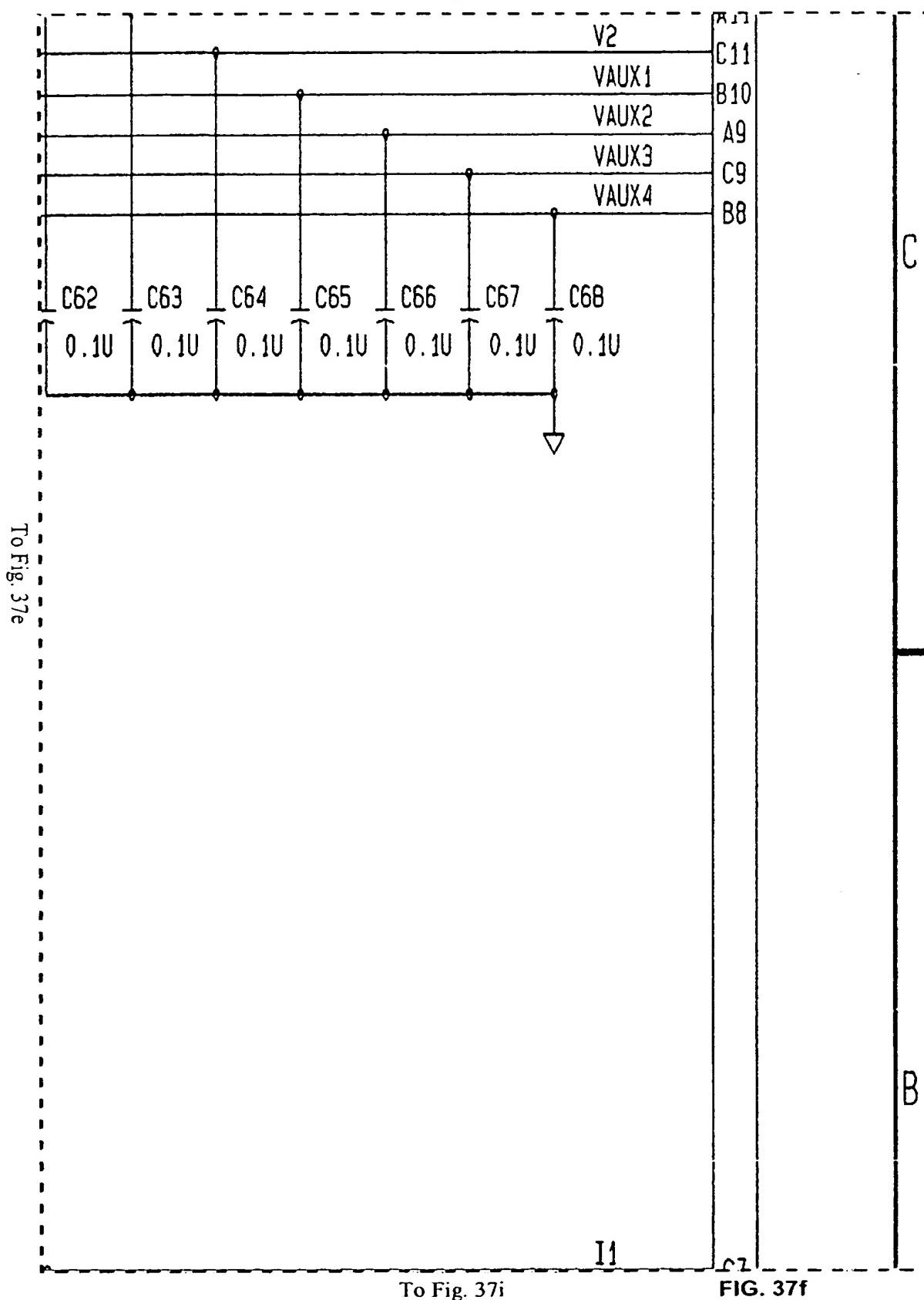
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MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

123 08 207

To Fig. 37c



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Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

184 8 207

To Fig. 37d

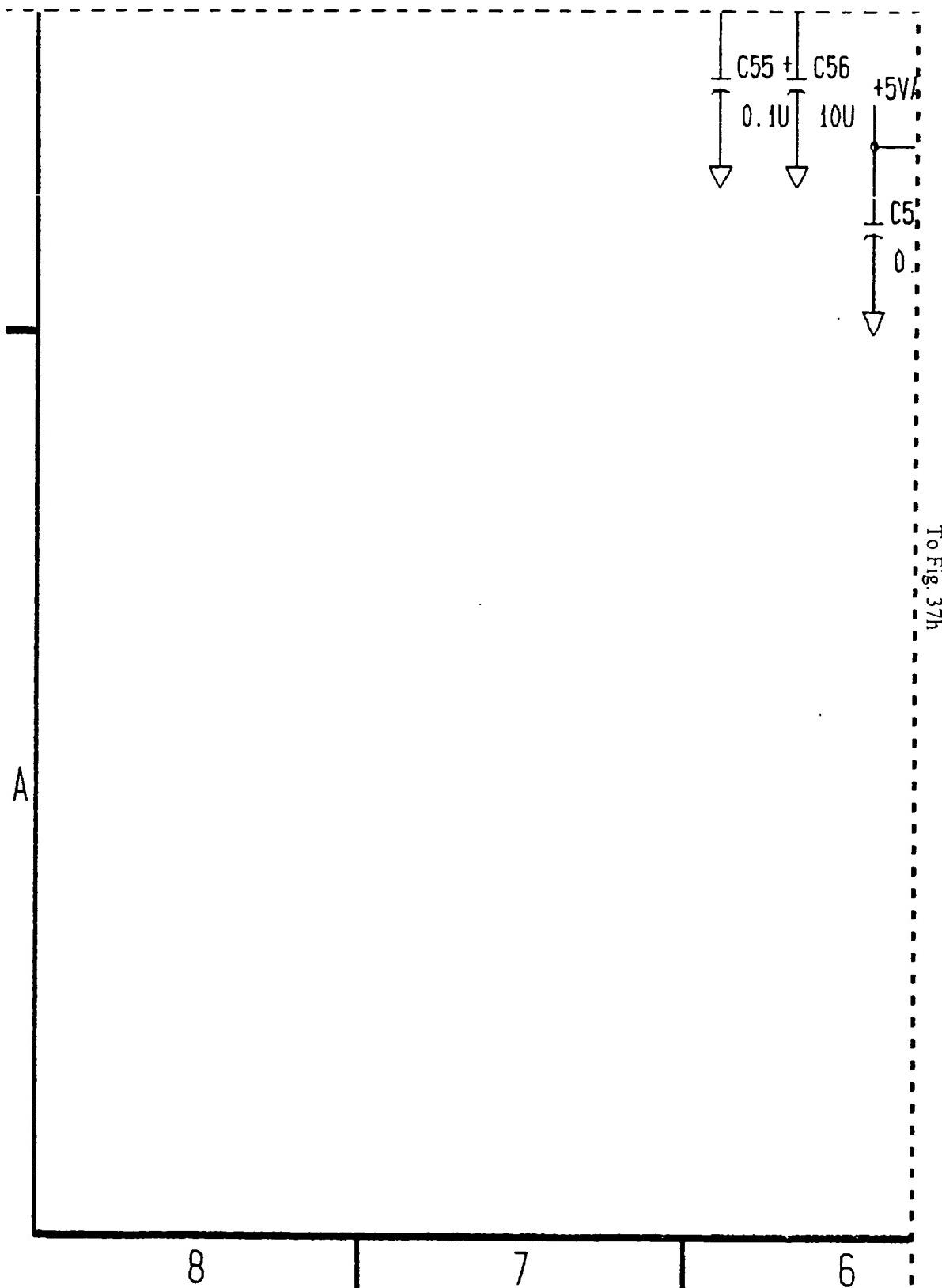
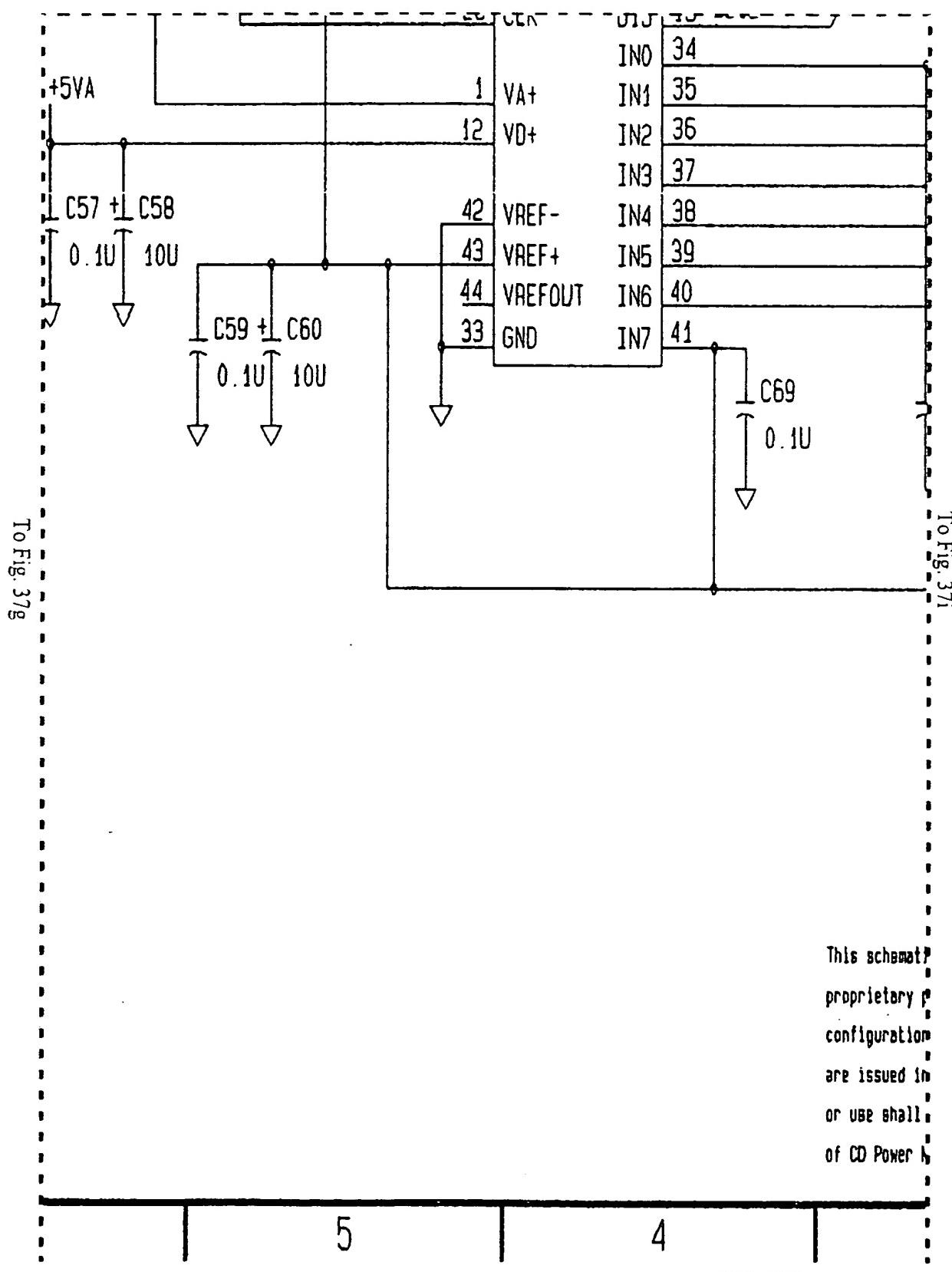


FIG. 37g

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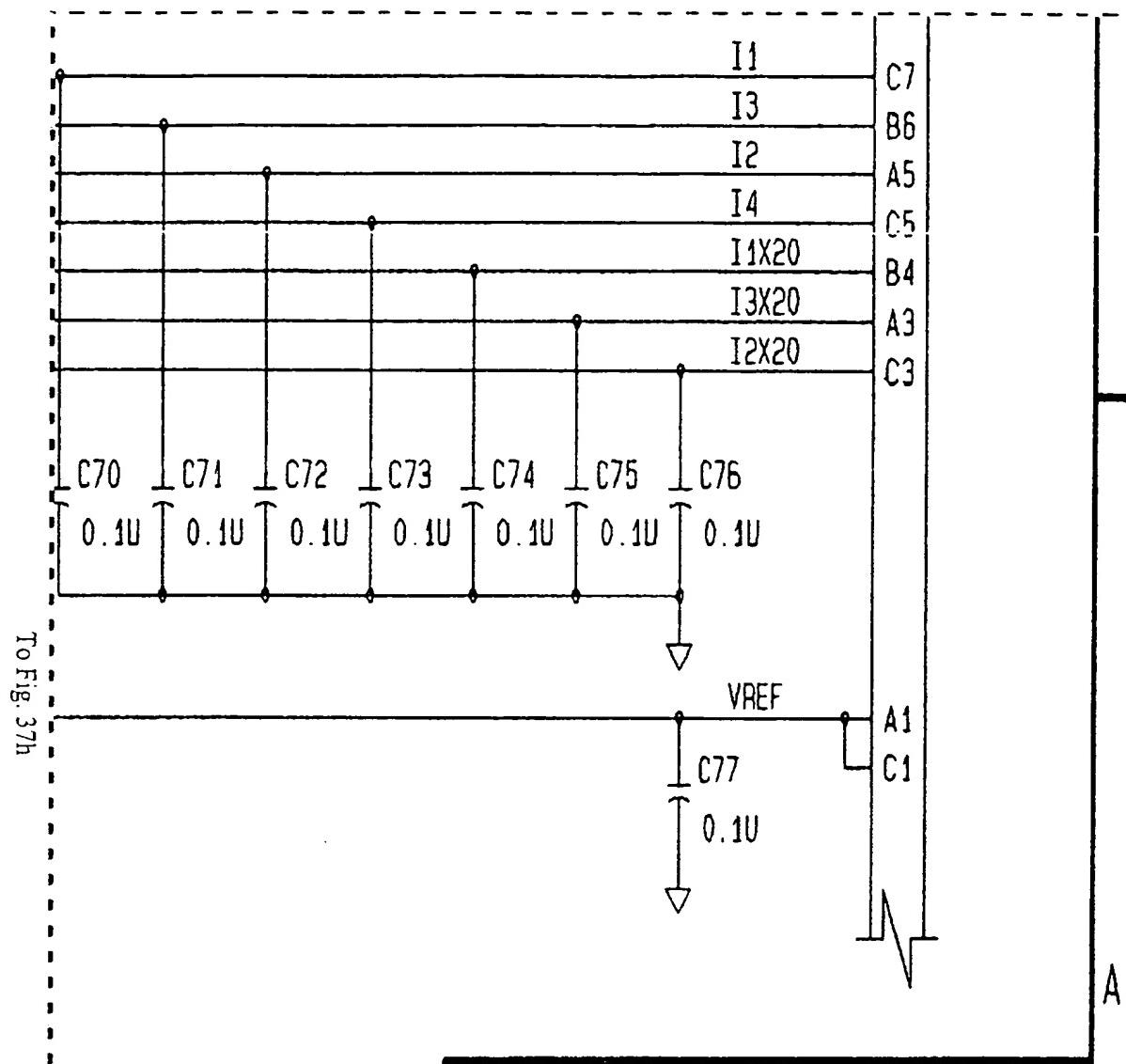
To Fig. 37e



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or use shall
of CD Power

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To Fig. 37f



To Fig.
37h

A

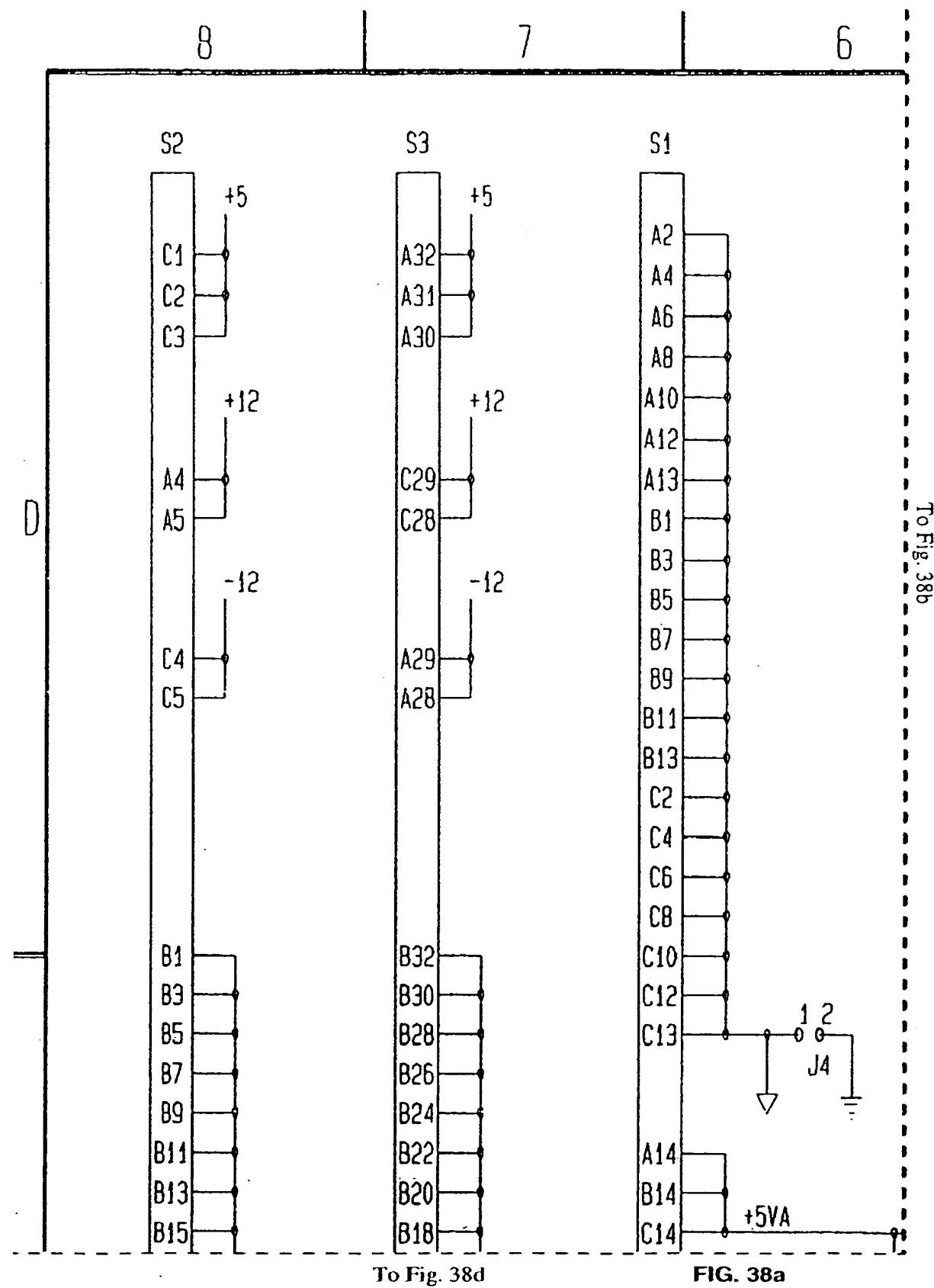
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128 9 207

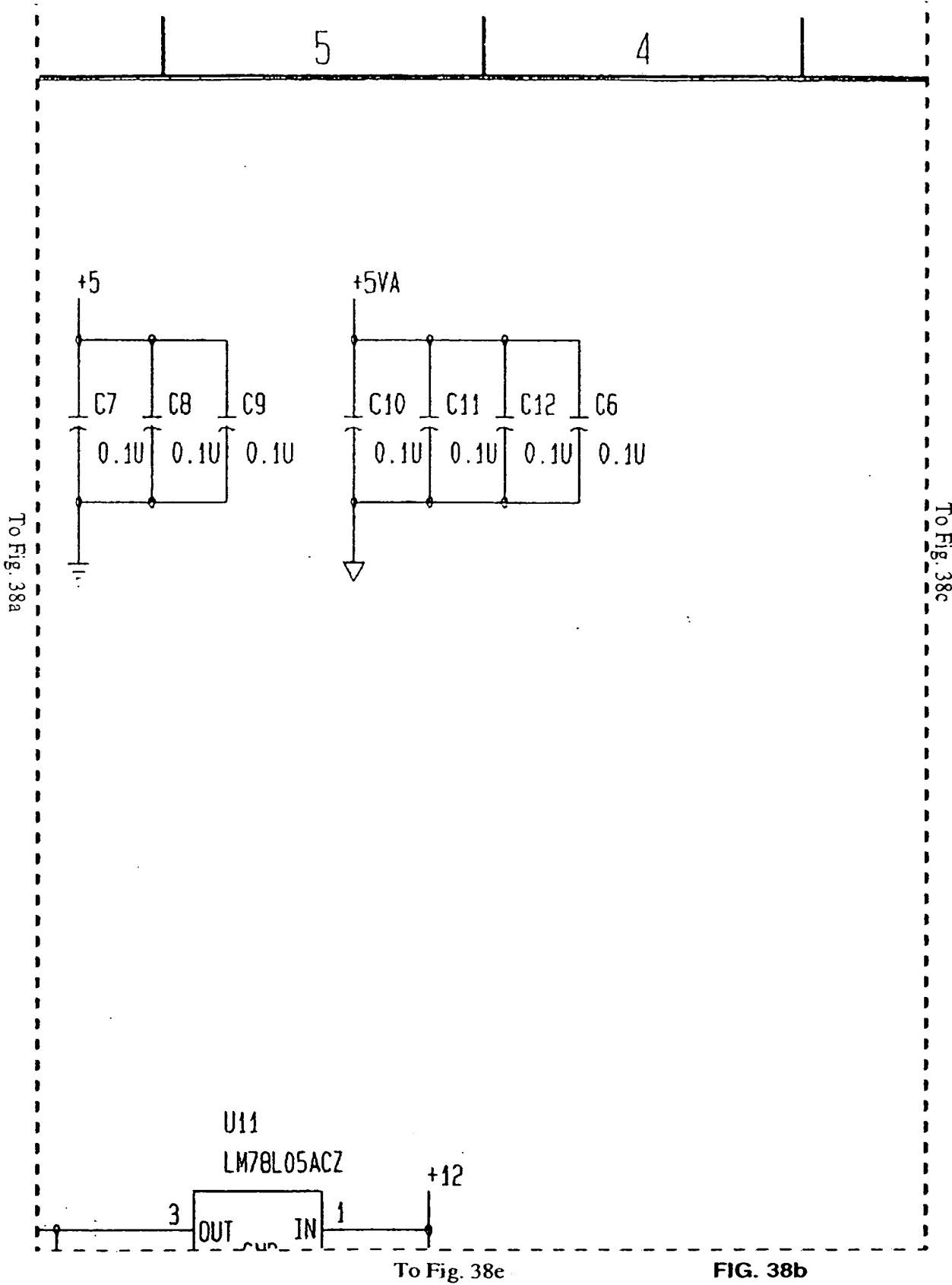


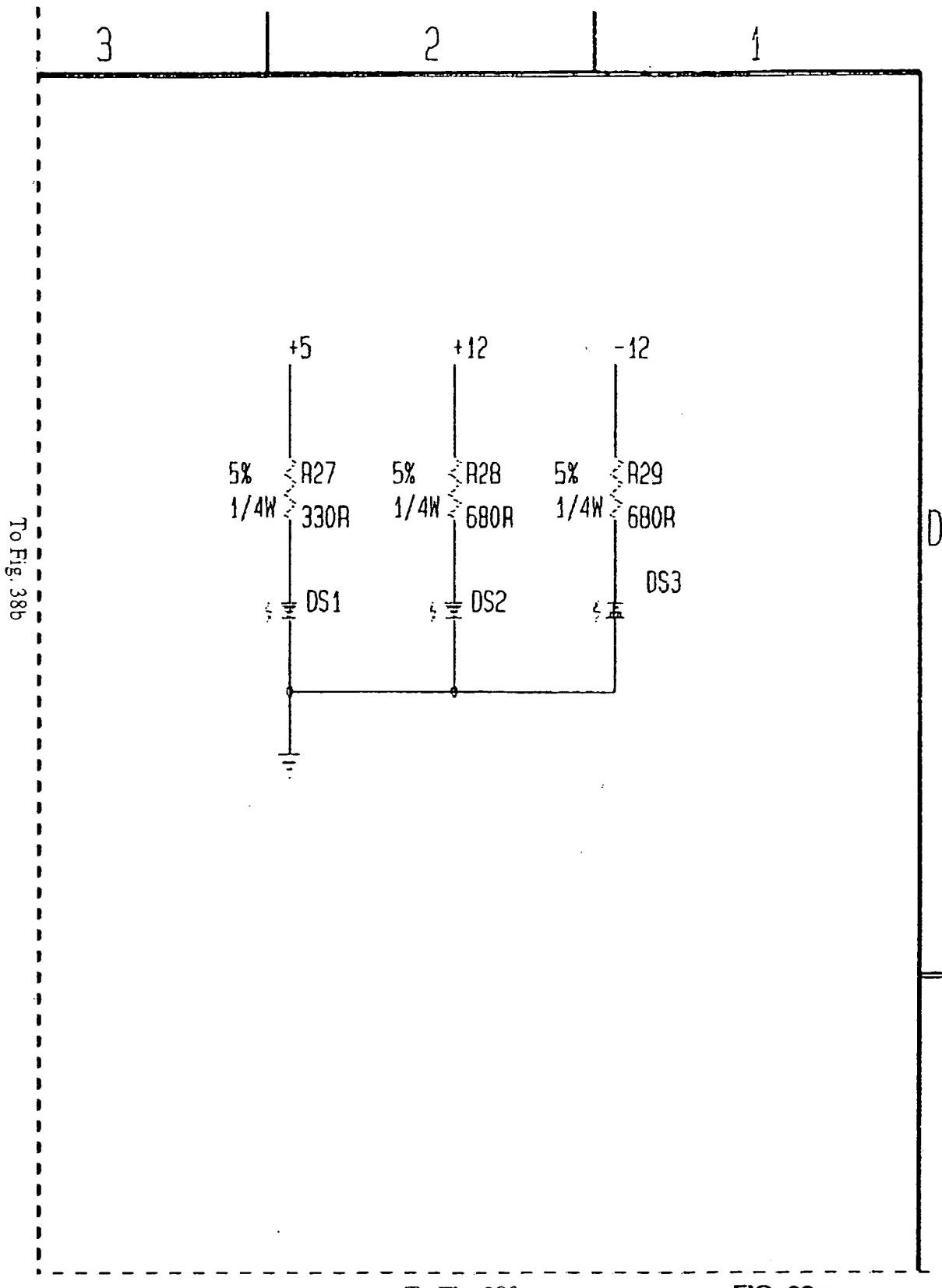
FIG. 38b

Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
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Inventor(s): Ronald G. Hart

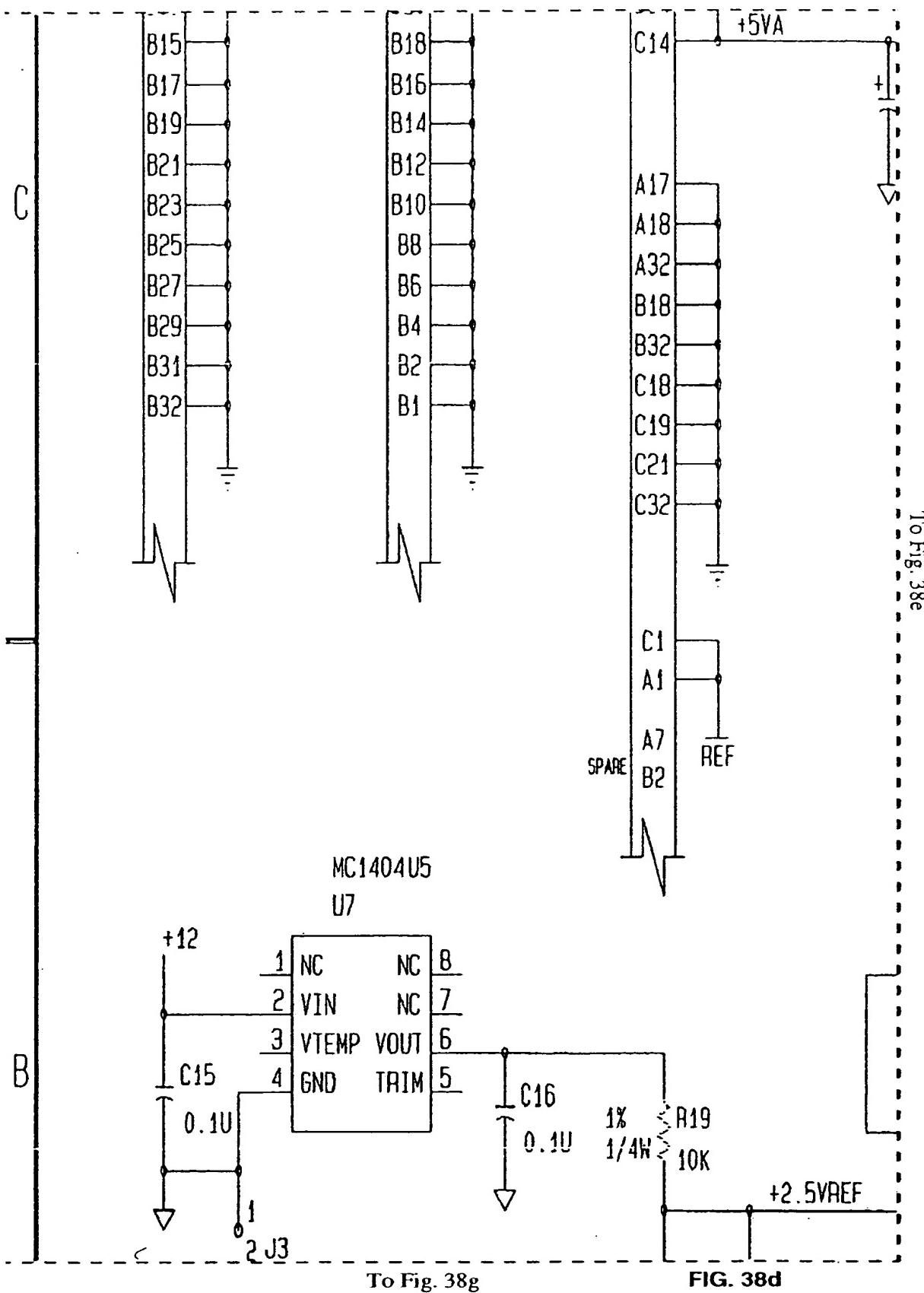
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129 Q 207



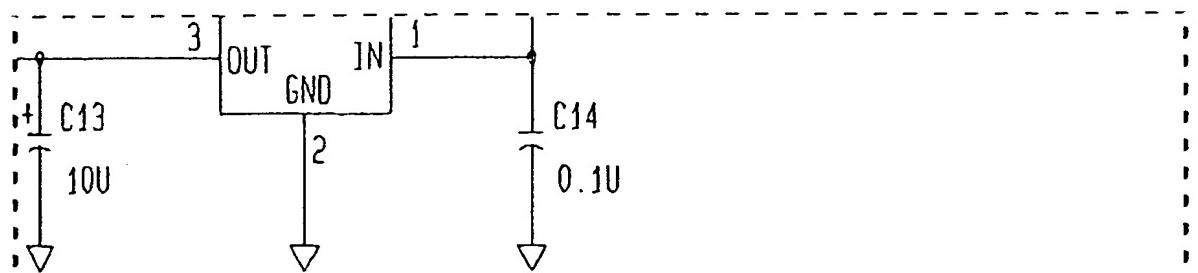
130 0 207

To Fig. 38a



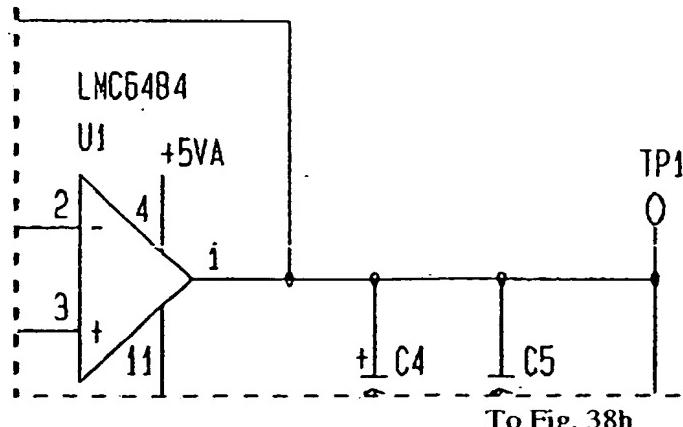
131 8307

To Fig. 38b



To Fig. 38f

To Fig. 38d



To Fig. 38b

FIG. 38e

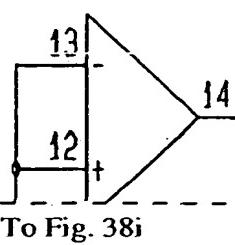
132 8 207

To Fig. 38c

To Fig. 38e

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To Fig. 38i

FIG. 38f

C

B

133 of 207

To Fig. 38d

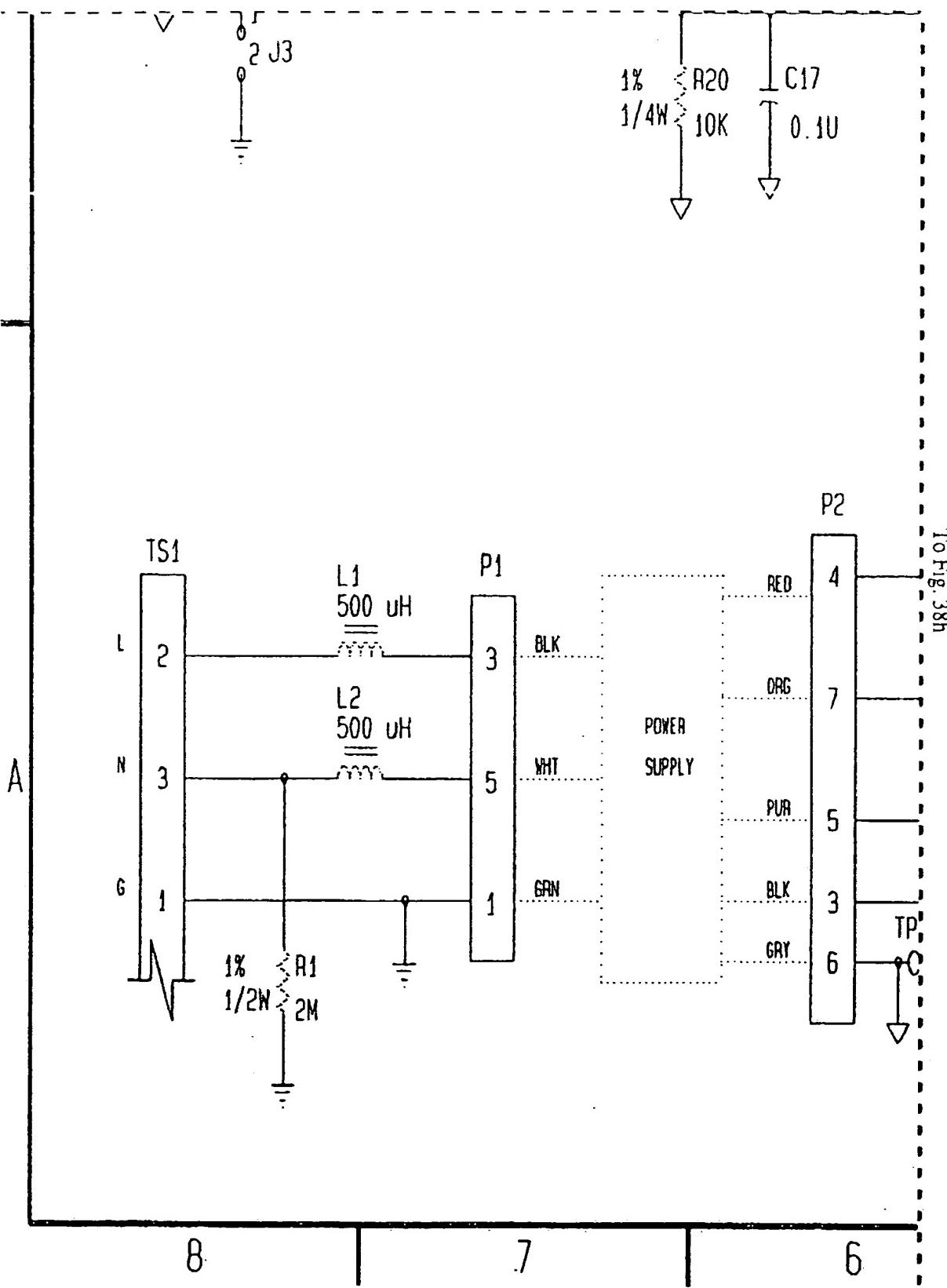
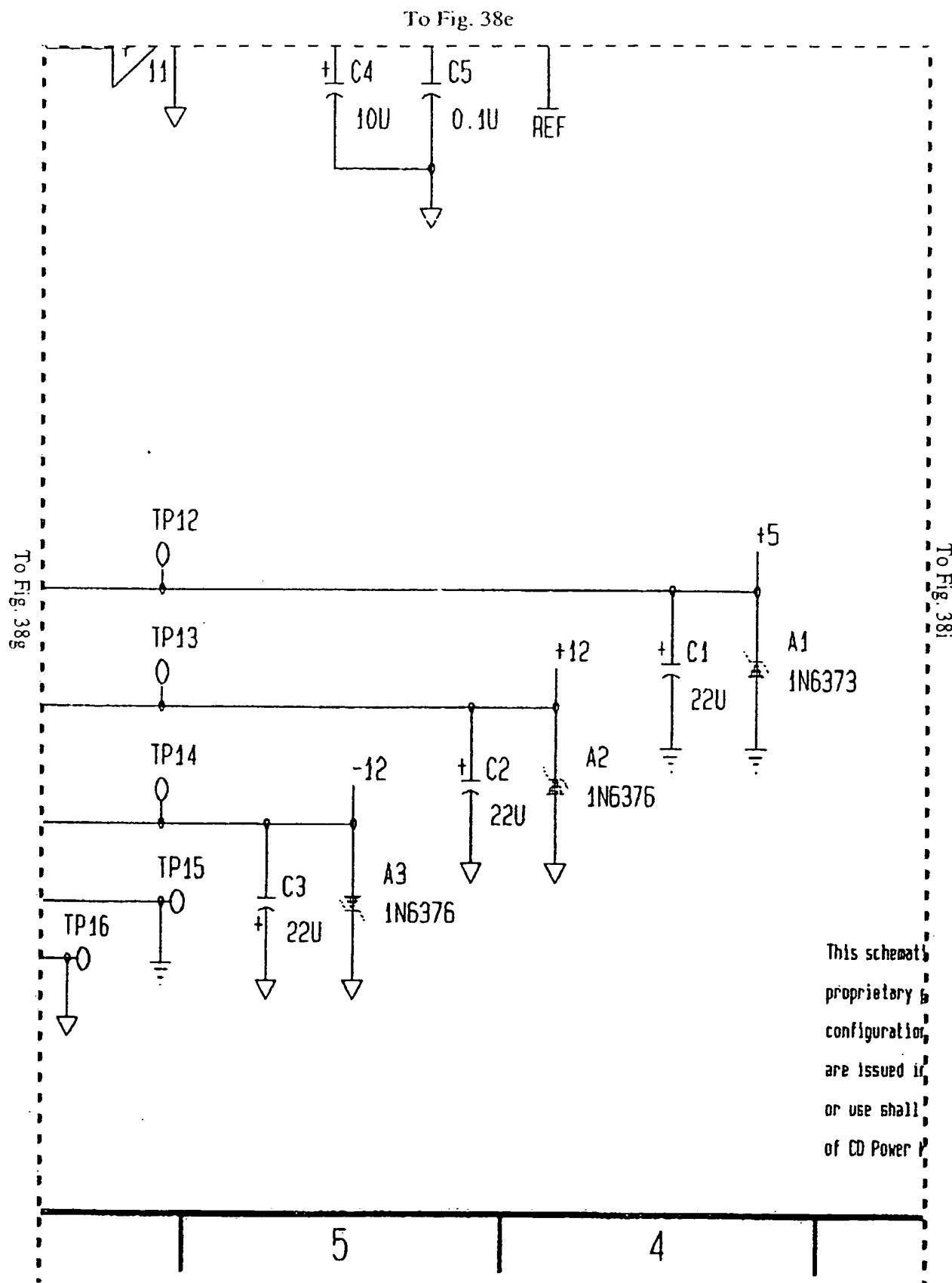


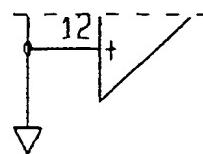
FIG. 38g

134 8 207

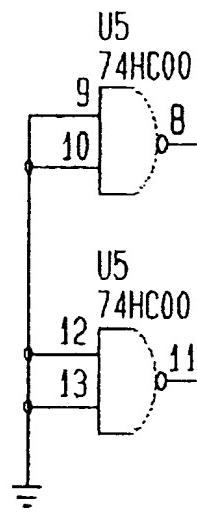


135 of 207

To Fig. 38f

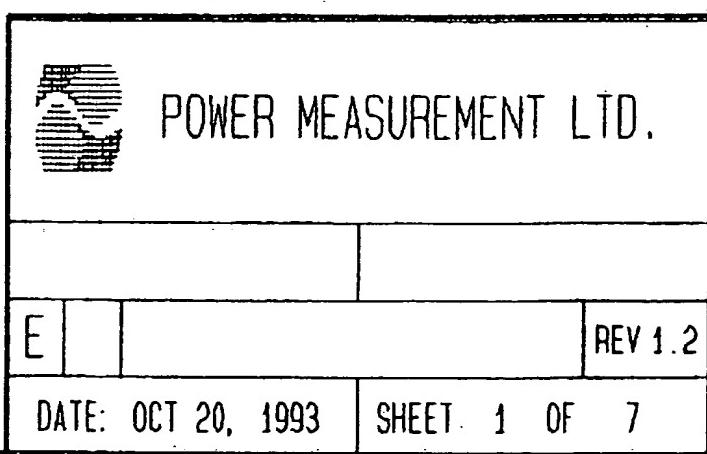


To Fig. 38h



LAST USED:
U11
R39
C30
S6
P4
A16
D53
TP16
J5
PTC3
TS3
L2
T4

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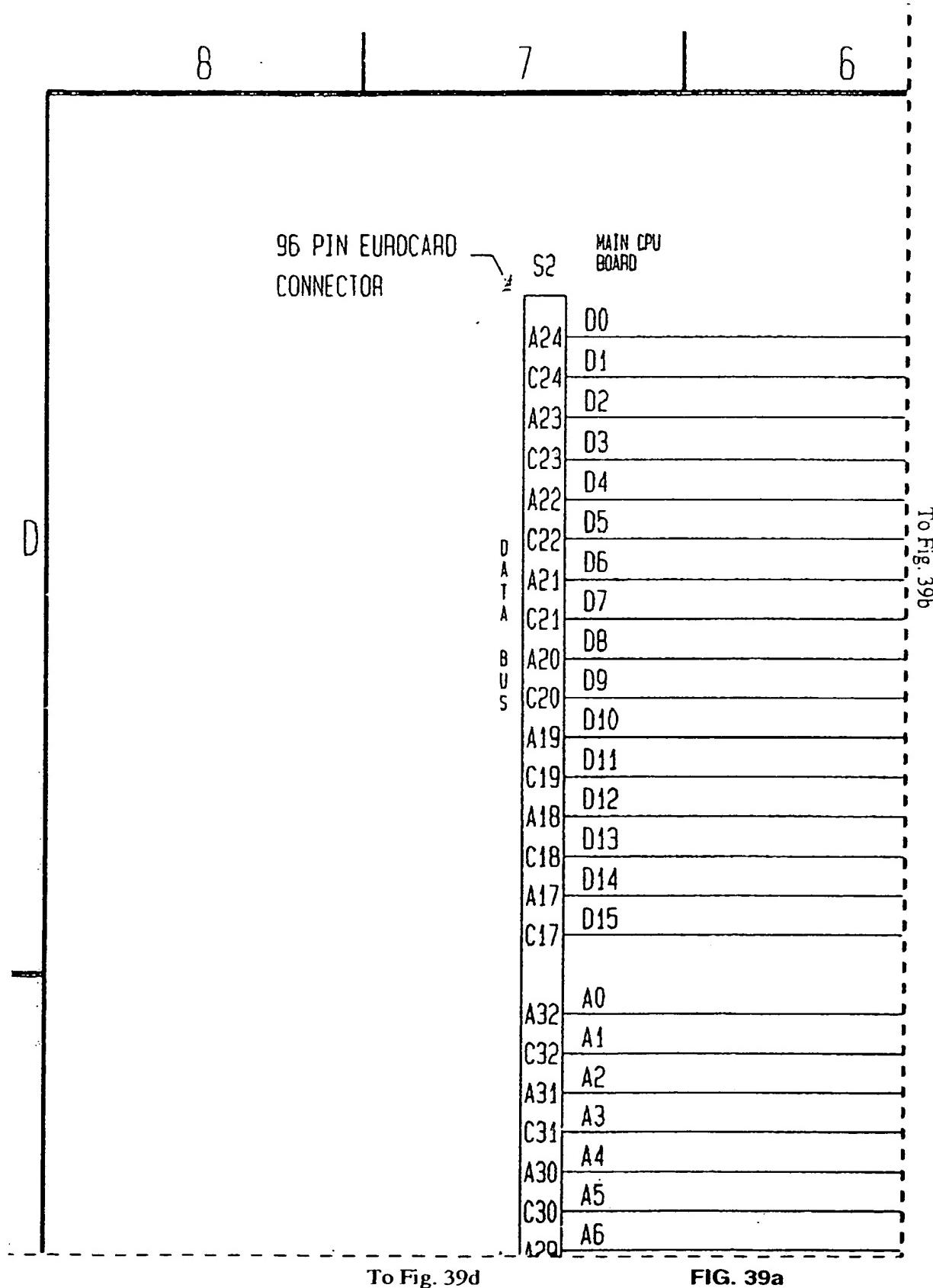
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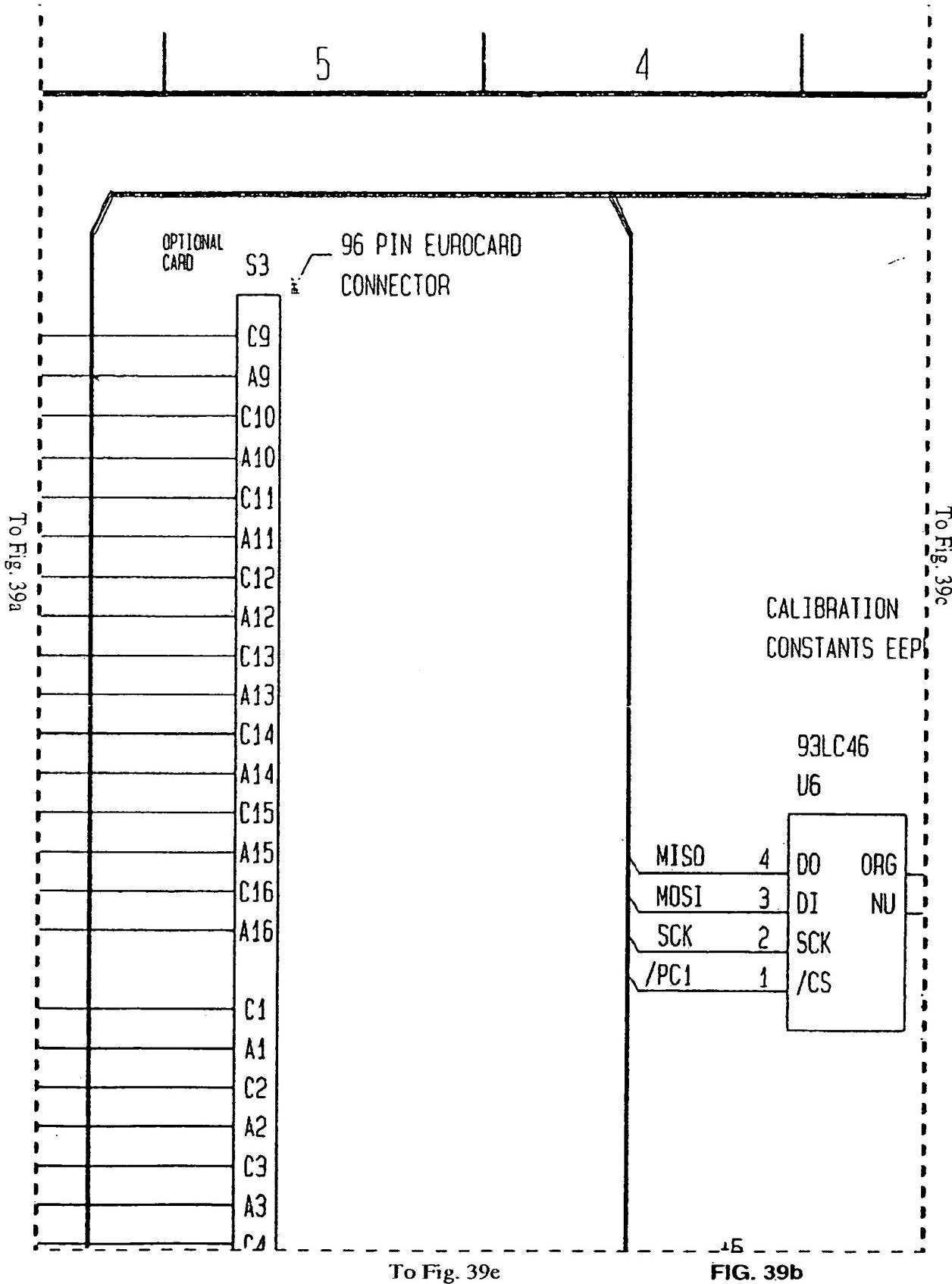
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FIG. 38i

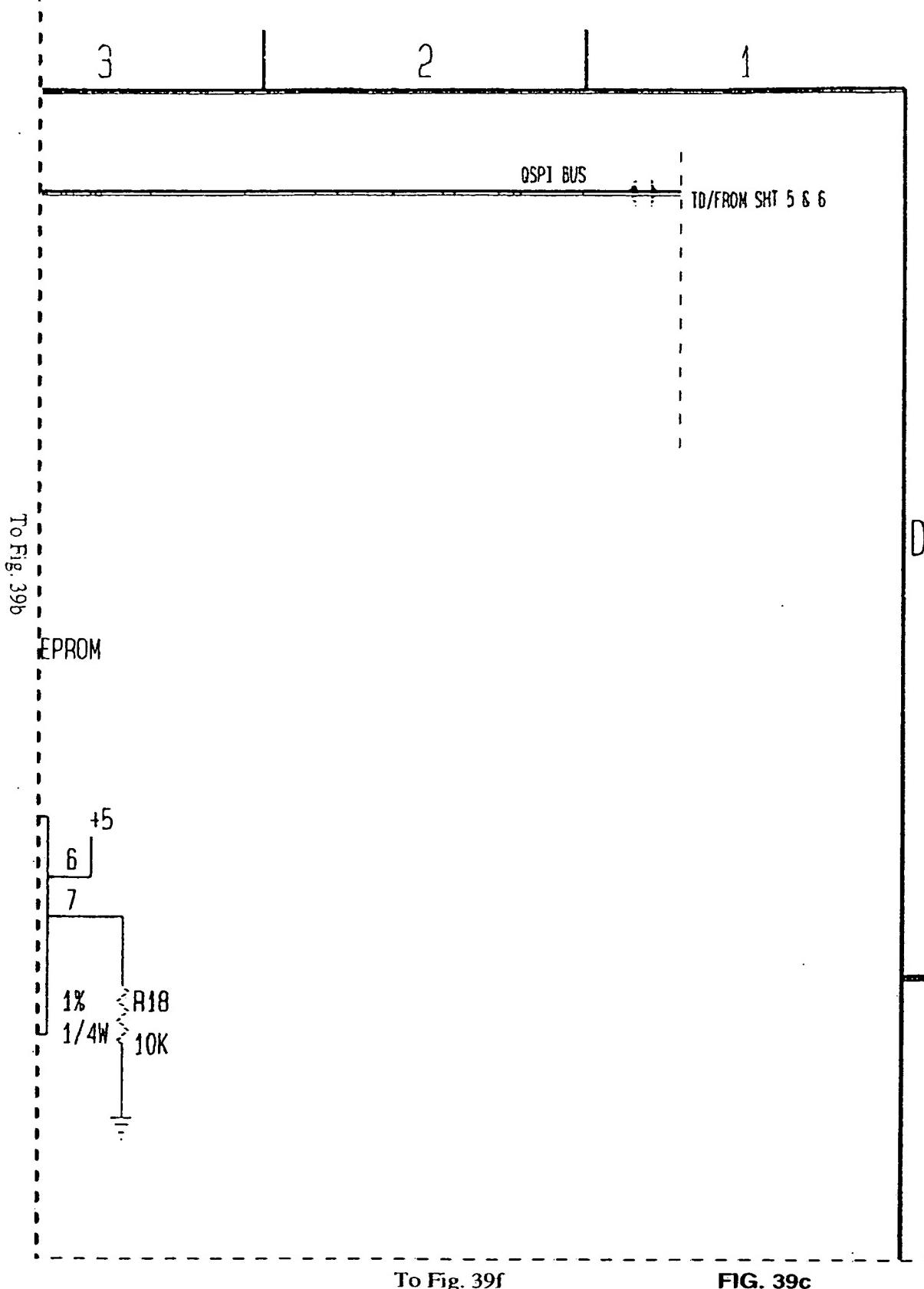
136 08 207



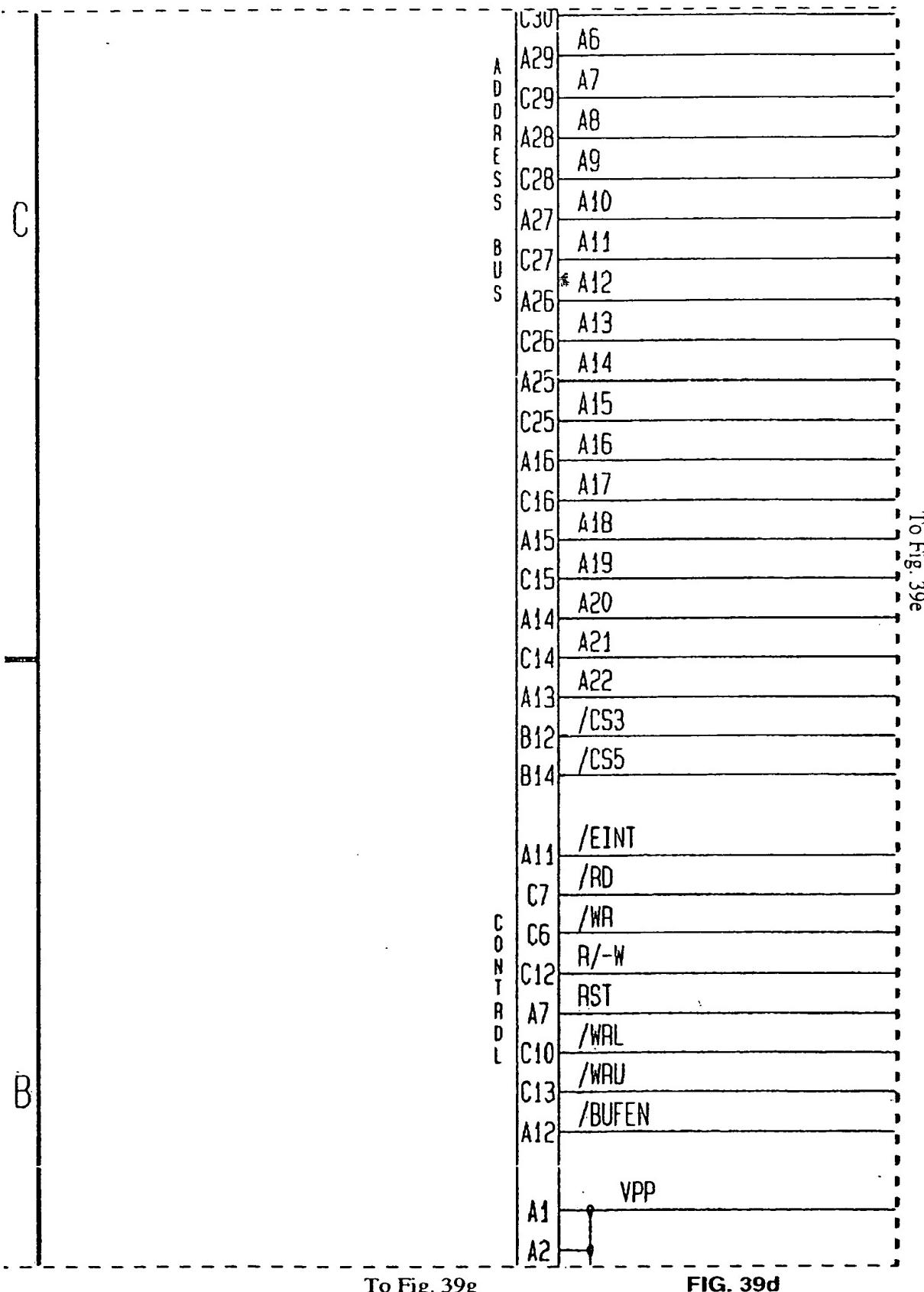
13707 307



138 8 207

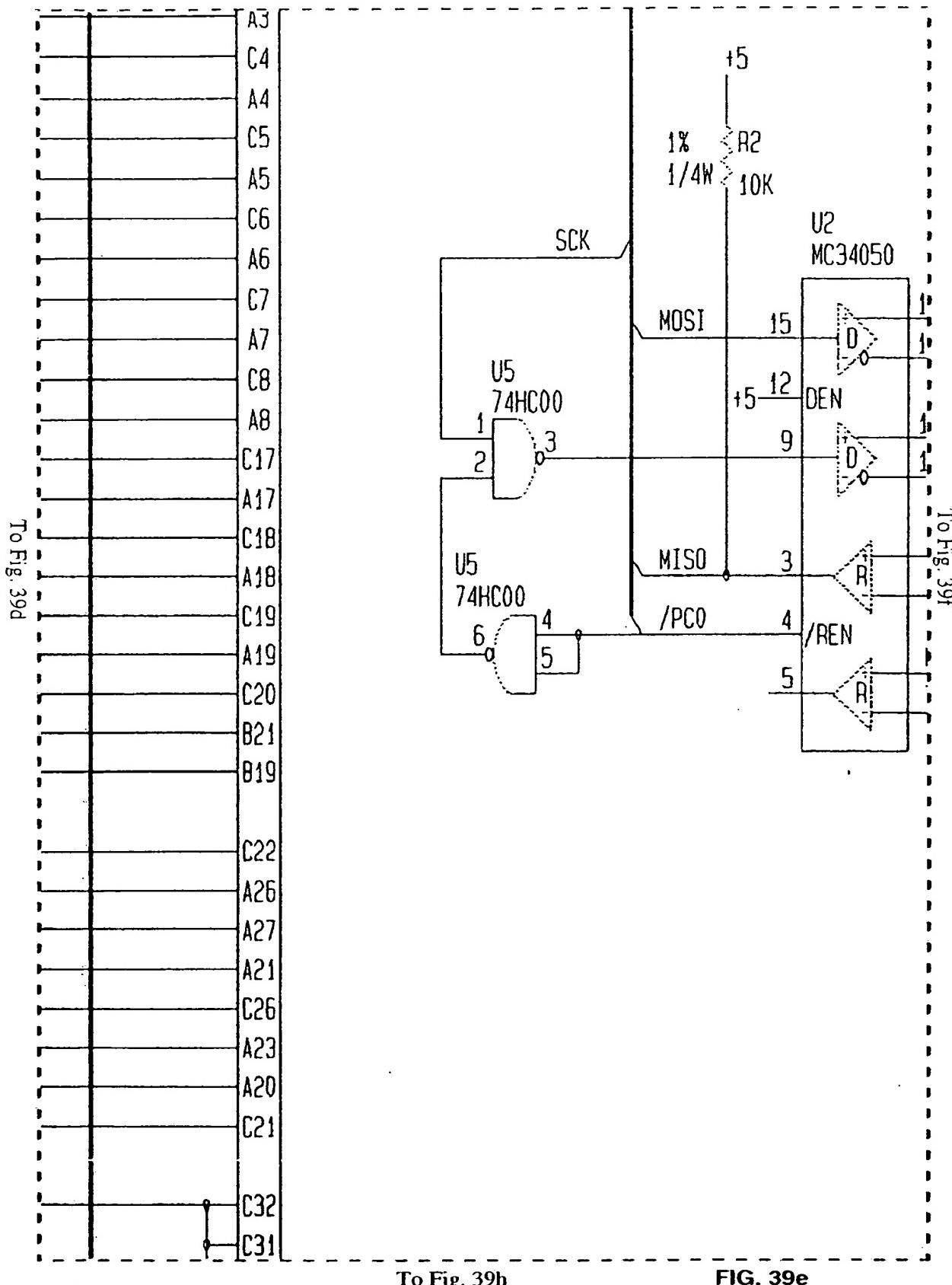


To Fig. 39a



140 86 207

To Fig. 39b



To Fig. 39h

FIG. 39e

141 of 207

To Fig. 39c

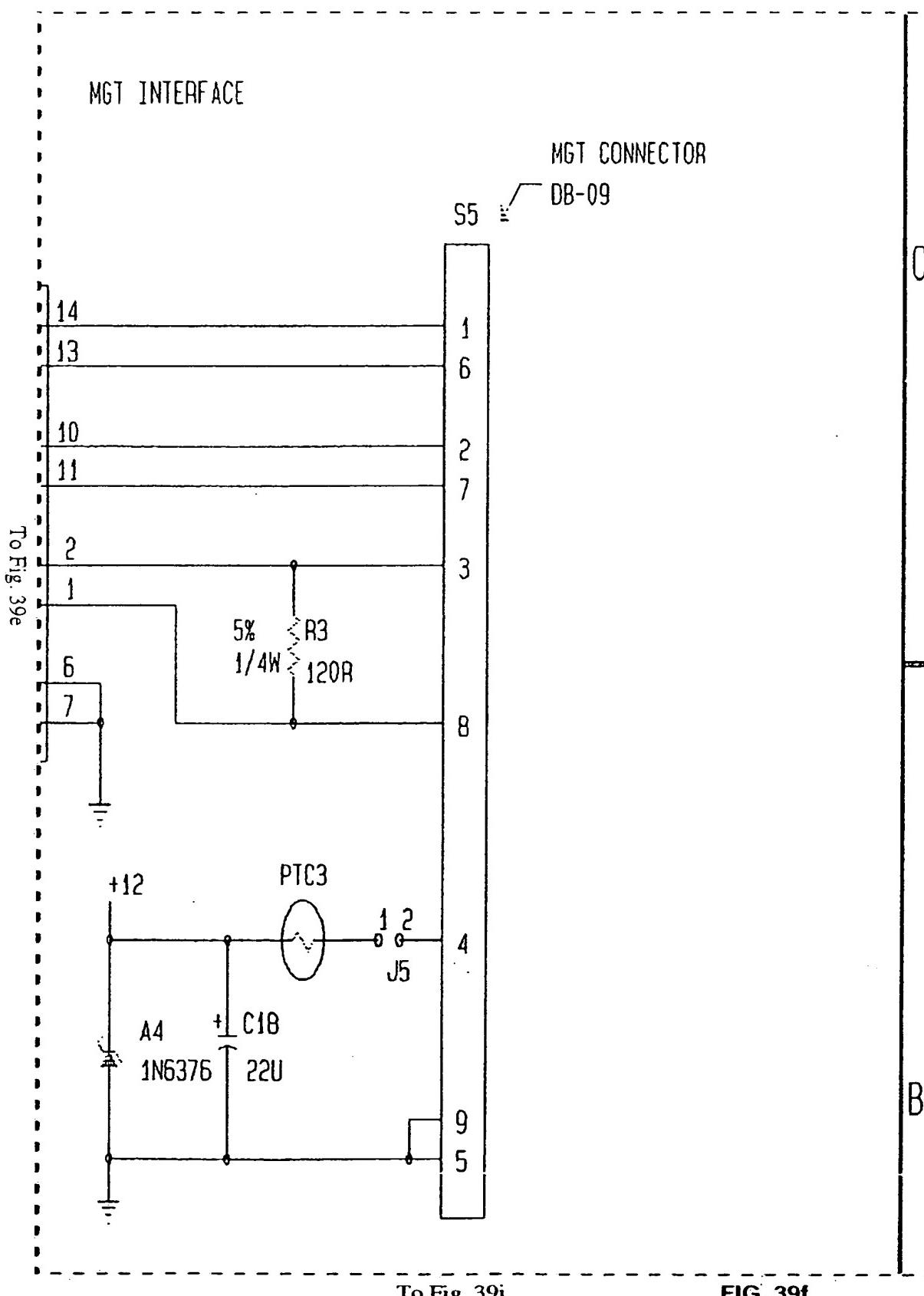


FIG. 39f

142 08 207

To Fig. 39d

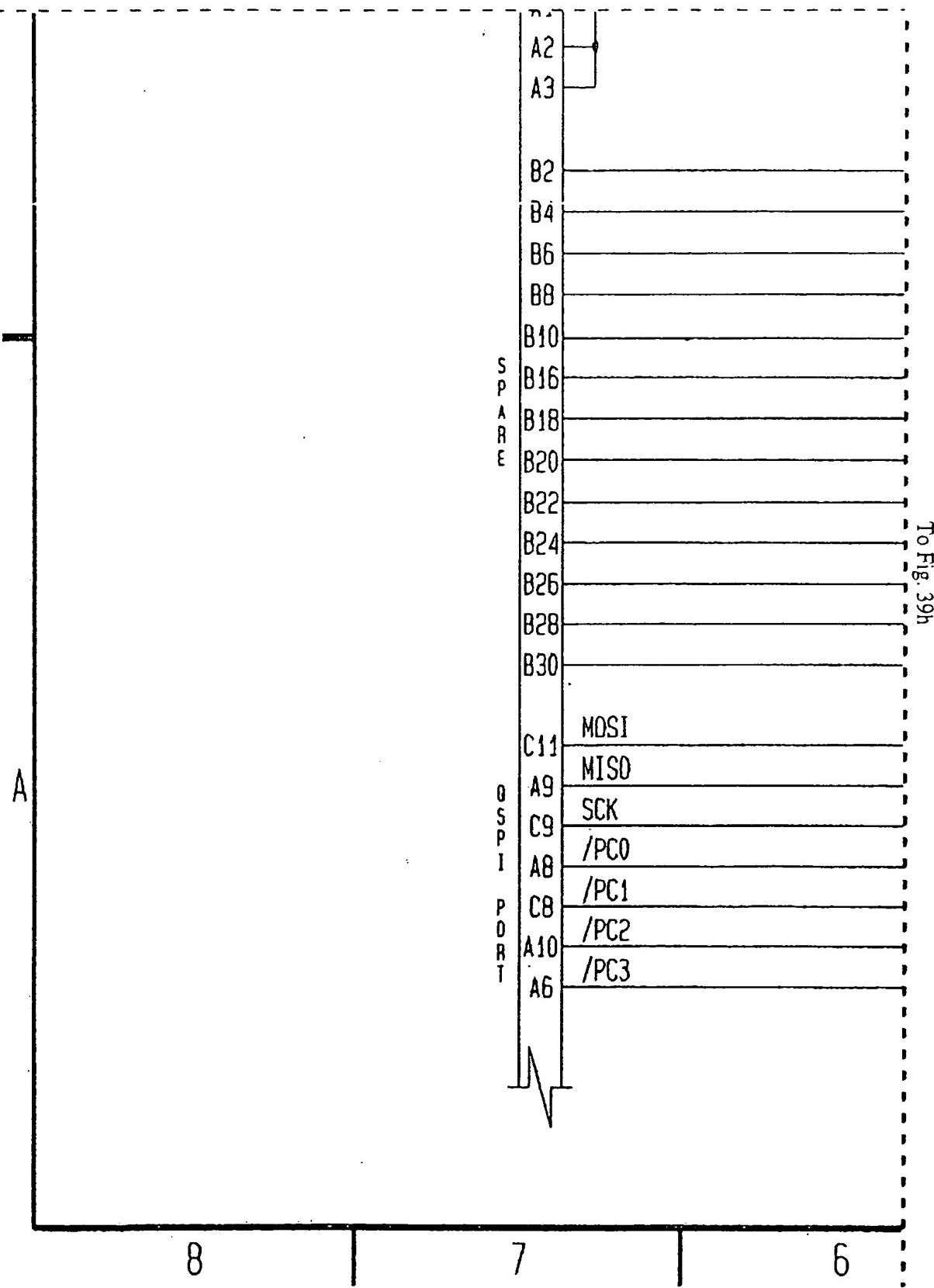


FIG. 39g

143 Q 207

To Fig. 39e

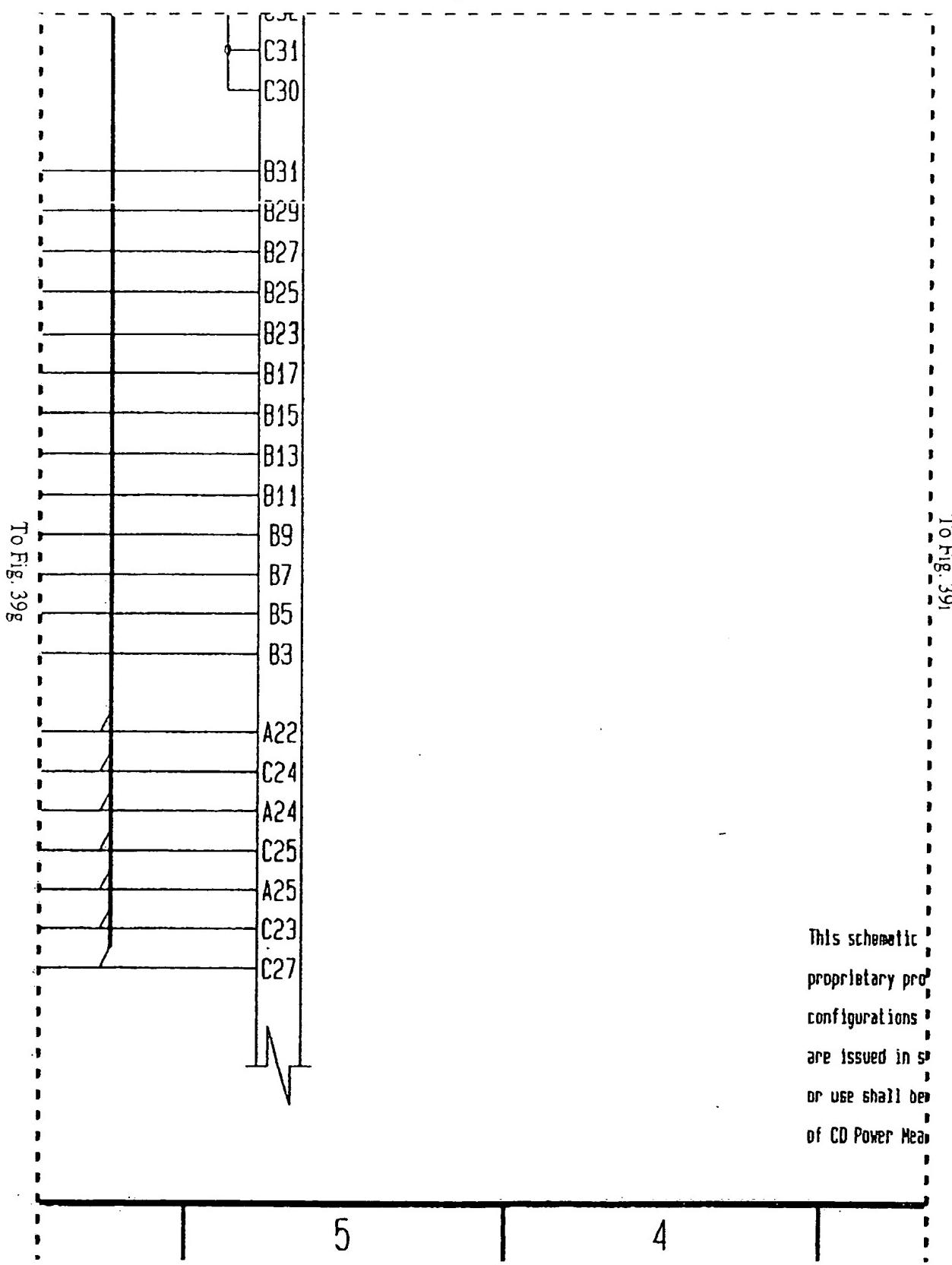


FIG. 39h

To Fig. 39f

To Fig. 39h

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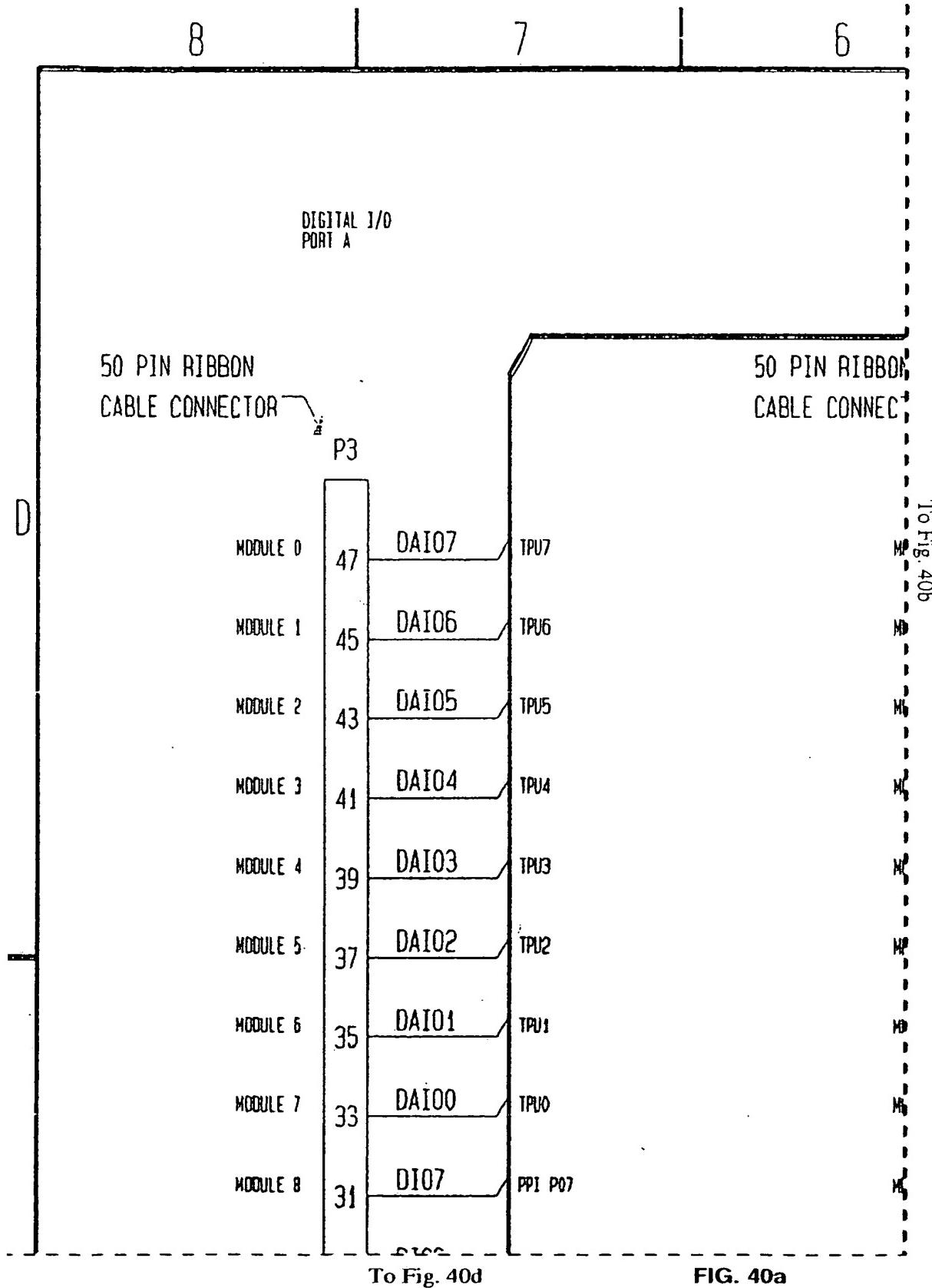
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FIG. 39i



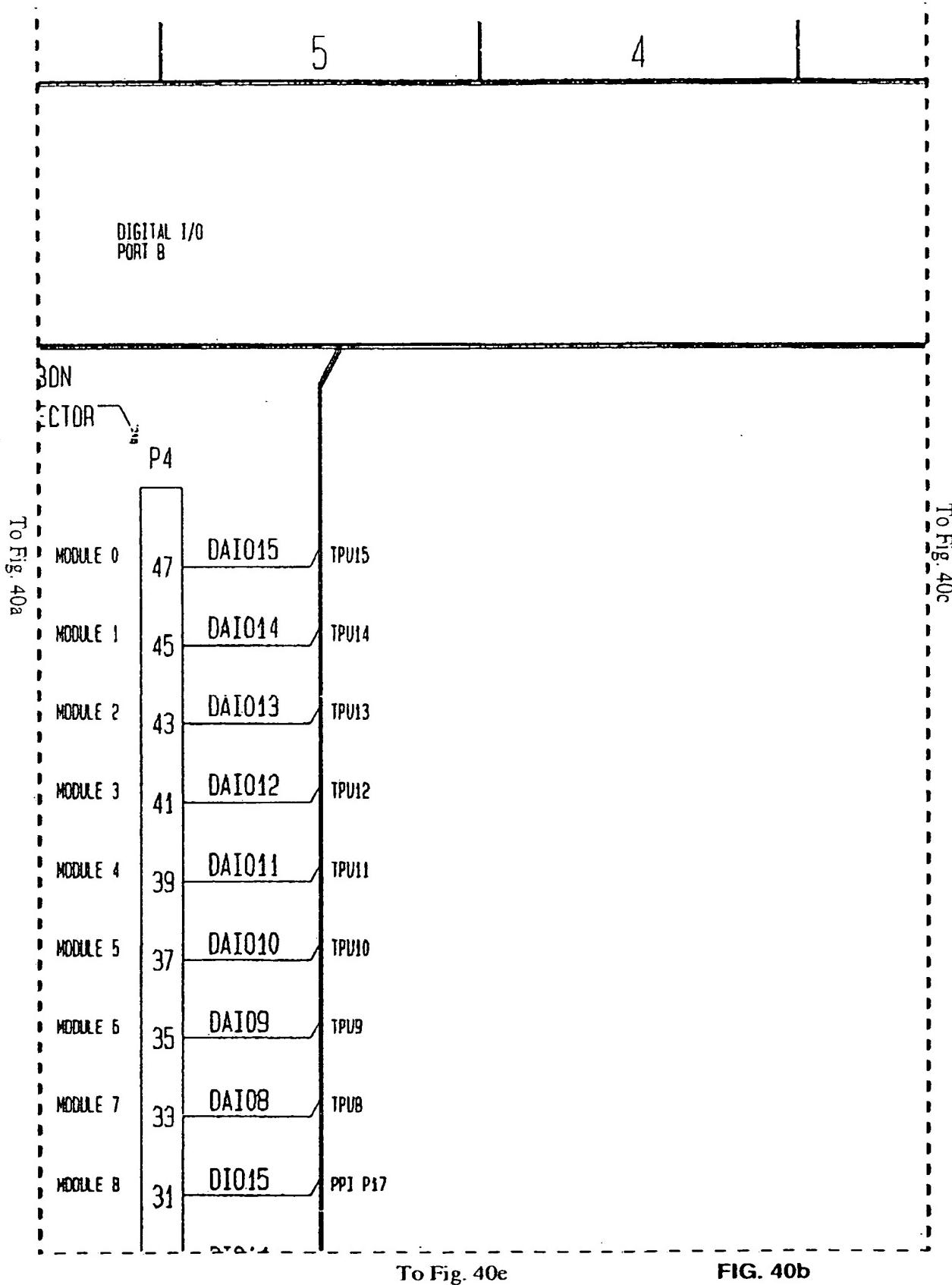
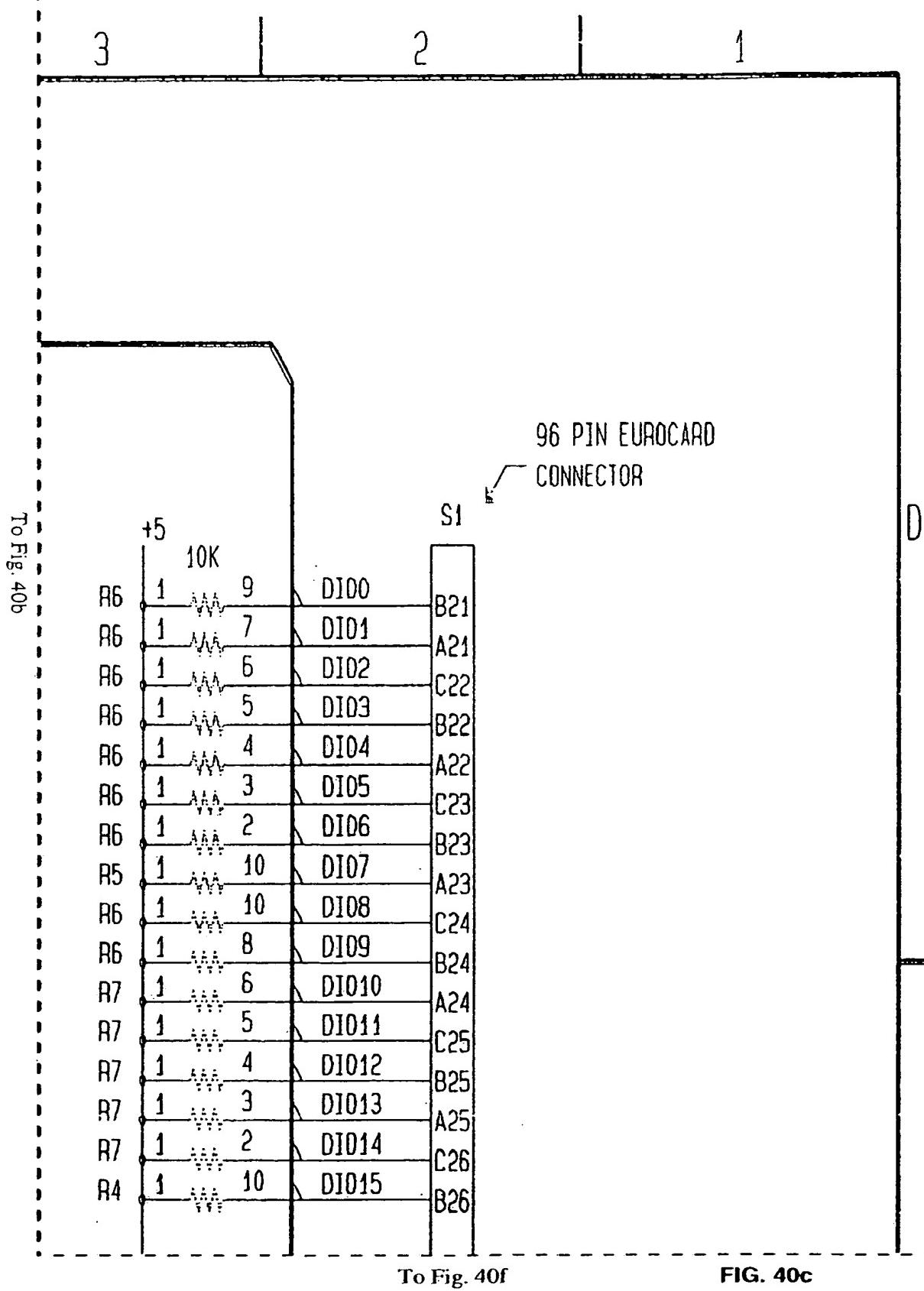
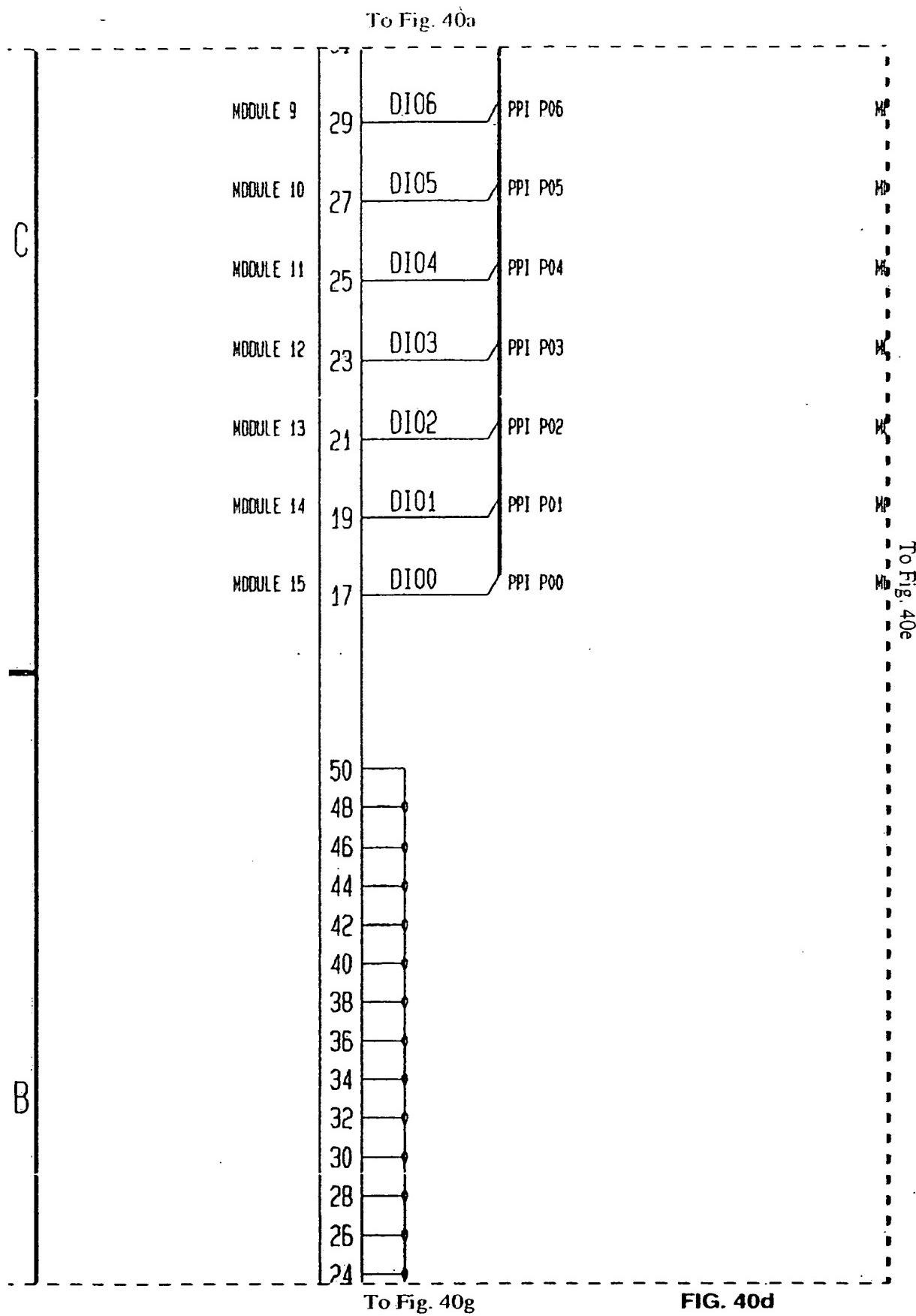


FIG. 40b

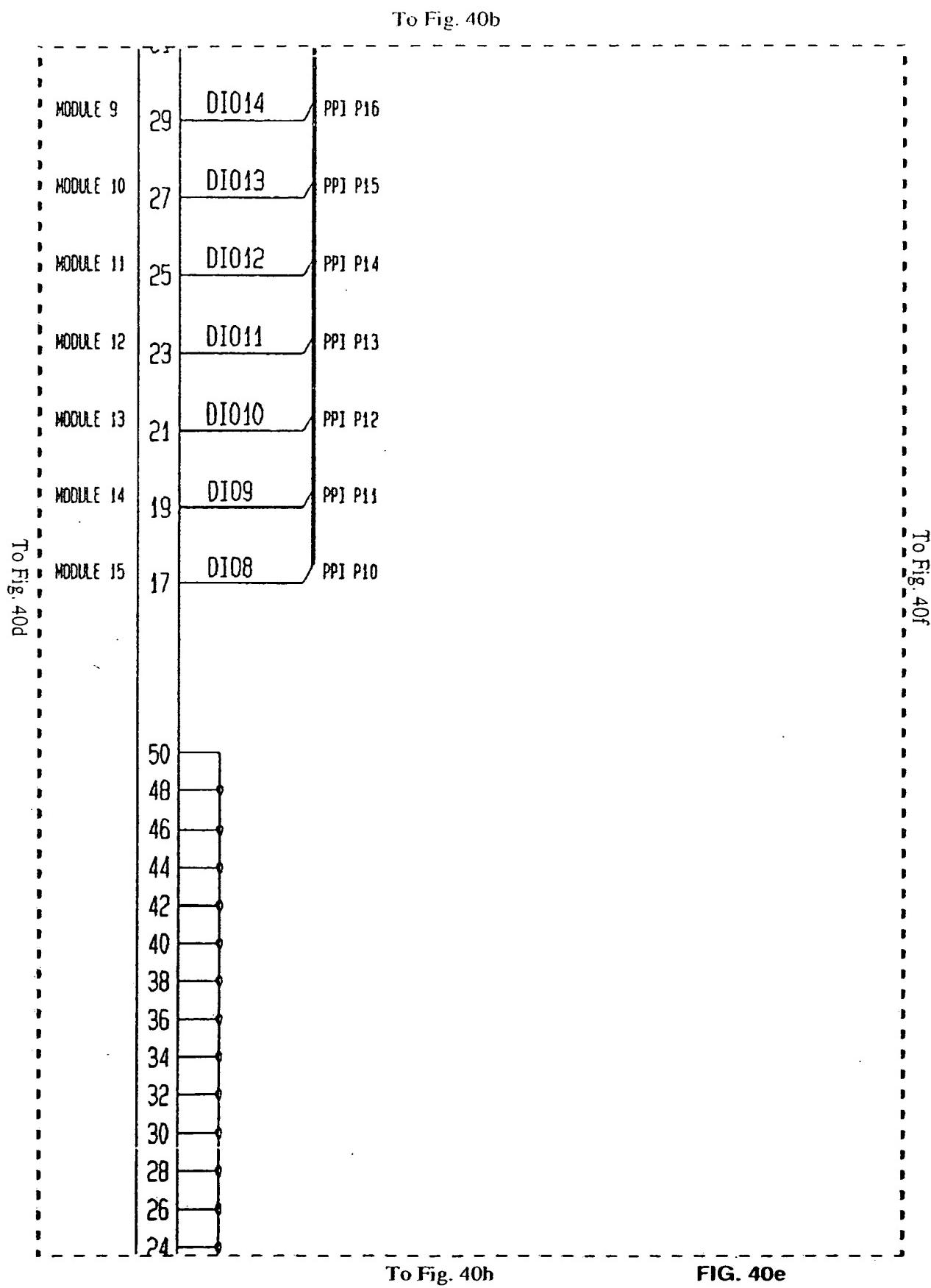
147 08 307



148 58 307



149 7 807



150 Q 307

To Fig. 40c

		DAI00	A26
R5	1	9	
R5	1	8	DAI01
R5	1	7	C27
R5	1	6	B27
R5	1	5	A27
R5	1	4	C28
R5	1	3	B28
R5	1	2	A28
R4	1	9	C29
R4	1	8	B29
R4	1	7	A29
R4	1	6	C30
R4	1	5	B30
R4	1	4	A30
R4	1	3	C31
R4	1	2	B31
R4	1	1	A31
R7	1	7	
R7	1	8	
R7	1	9	
R7	1	10	

C

B

To Fig. 40i

FIG. 40f

151 4 307

To Fig. 40d

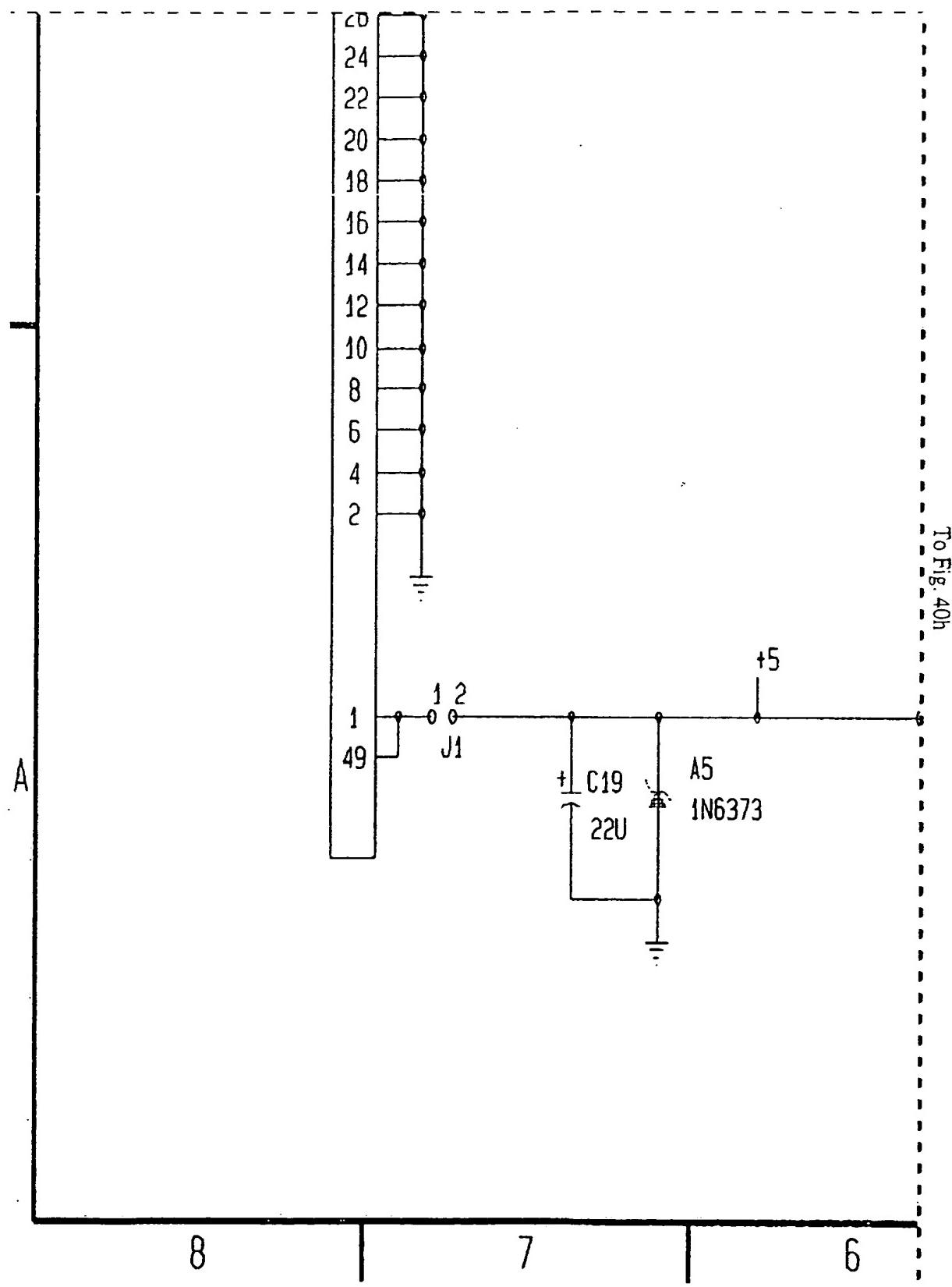


FIG. 40g

To Fig. 40e

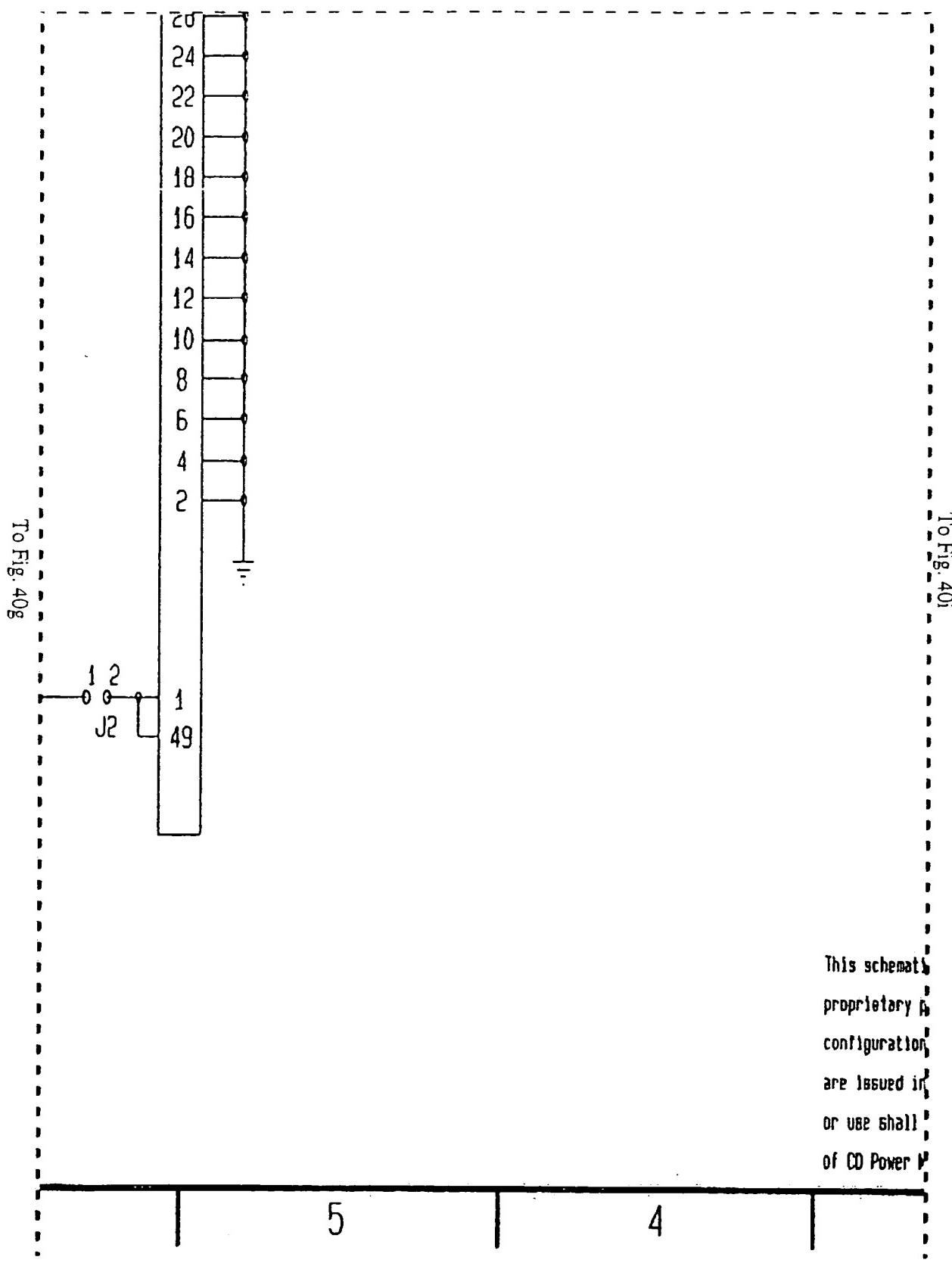


FIG. 40h

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

193 of 207

To Fig. 40f

To Fig. 40h

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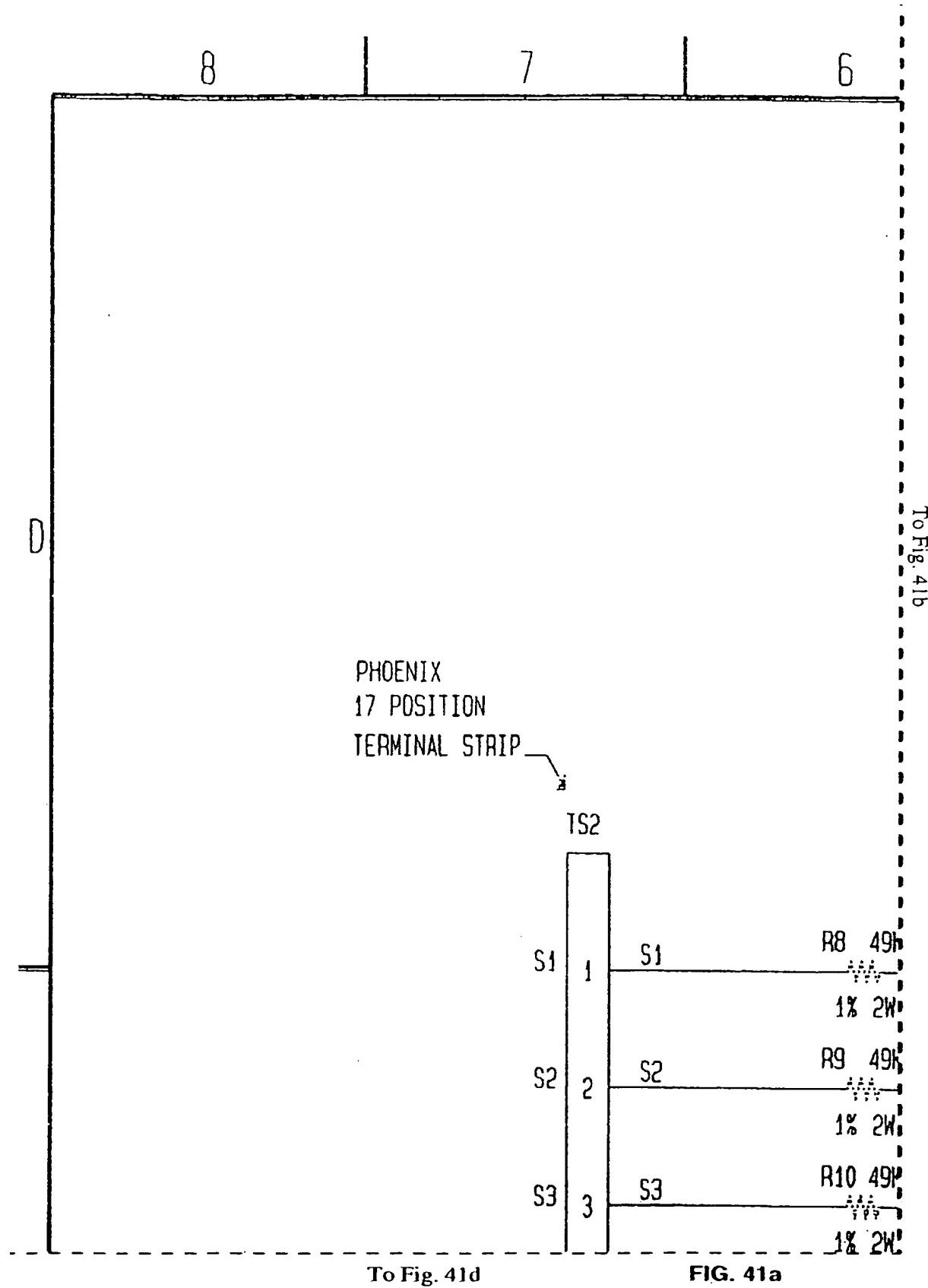
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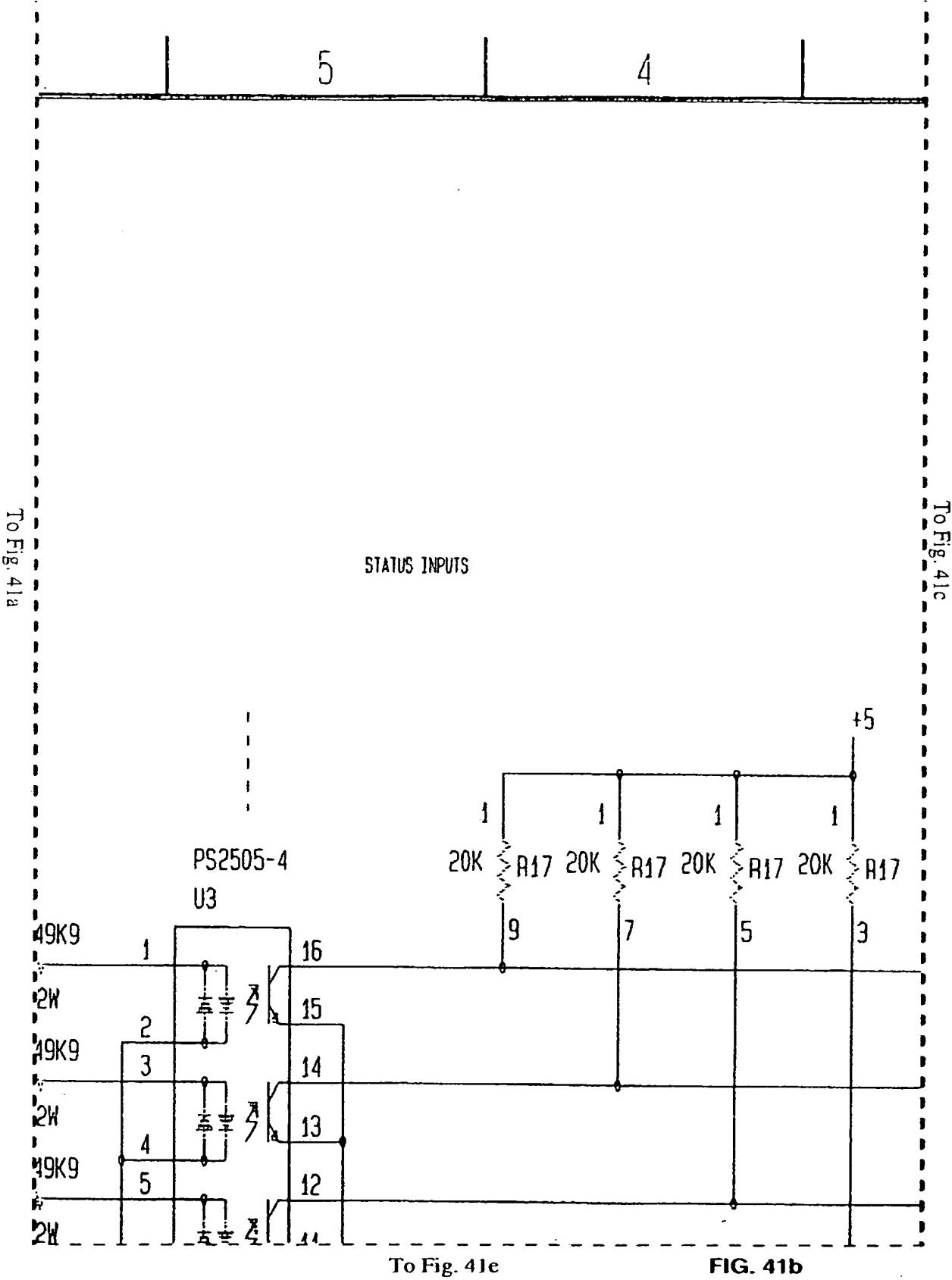
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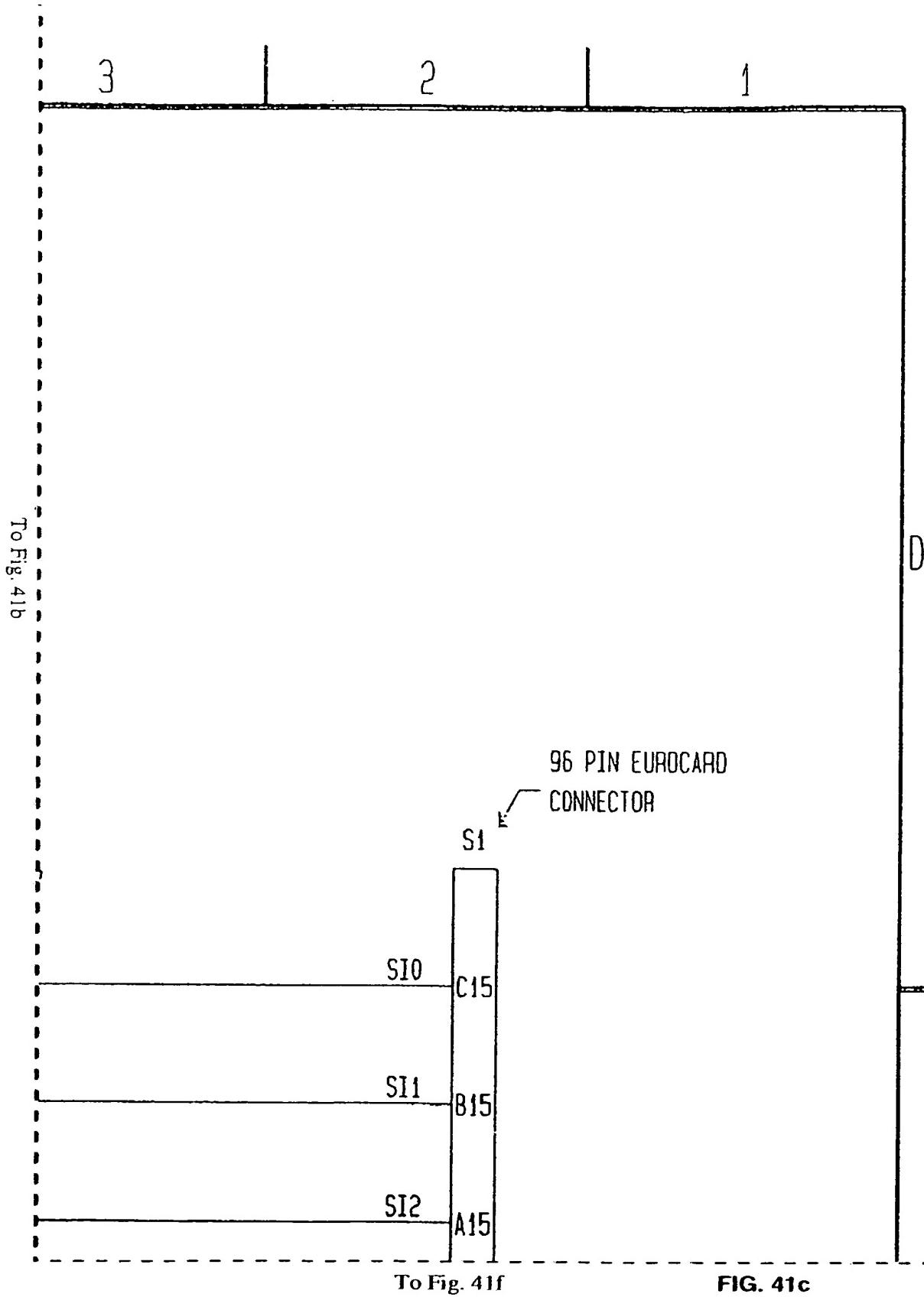
FIG. 40i

194 8 207



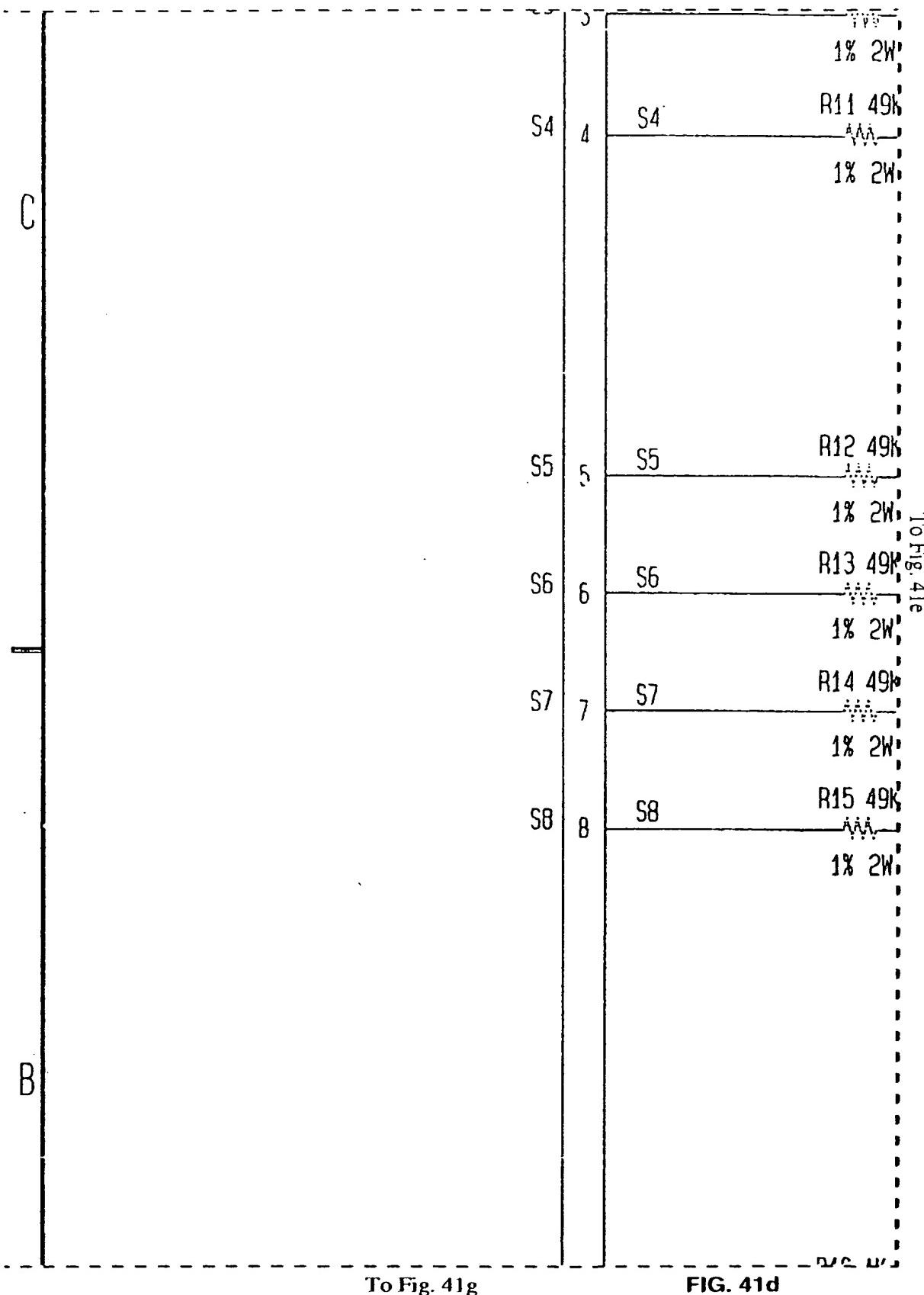


156 8207



157 08 307

To Fig. 41a



158 7 207

To Fig. 41b

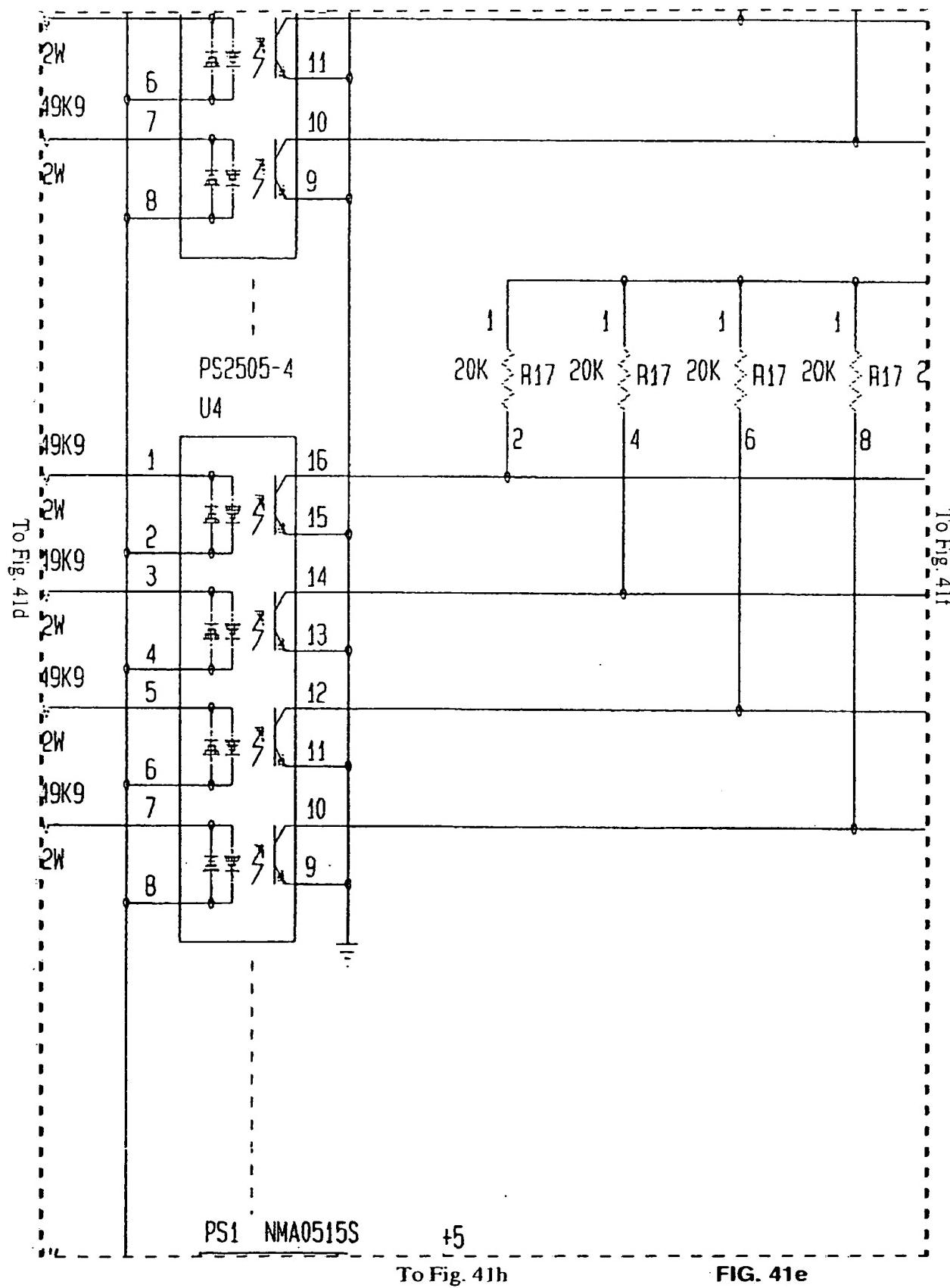
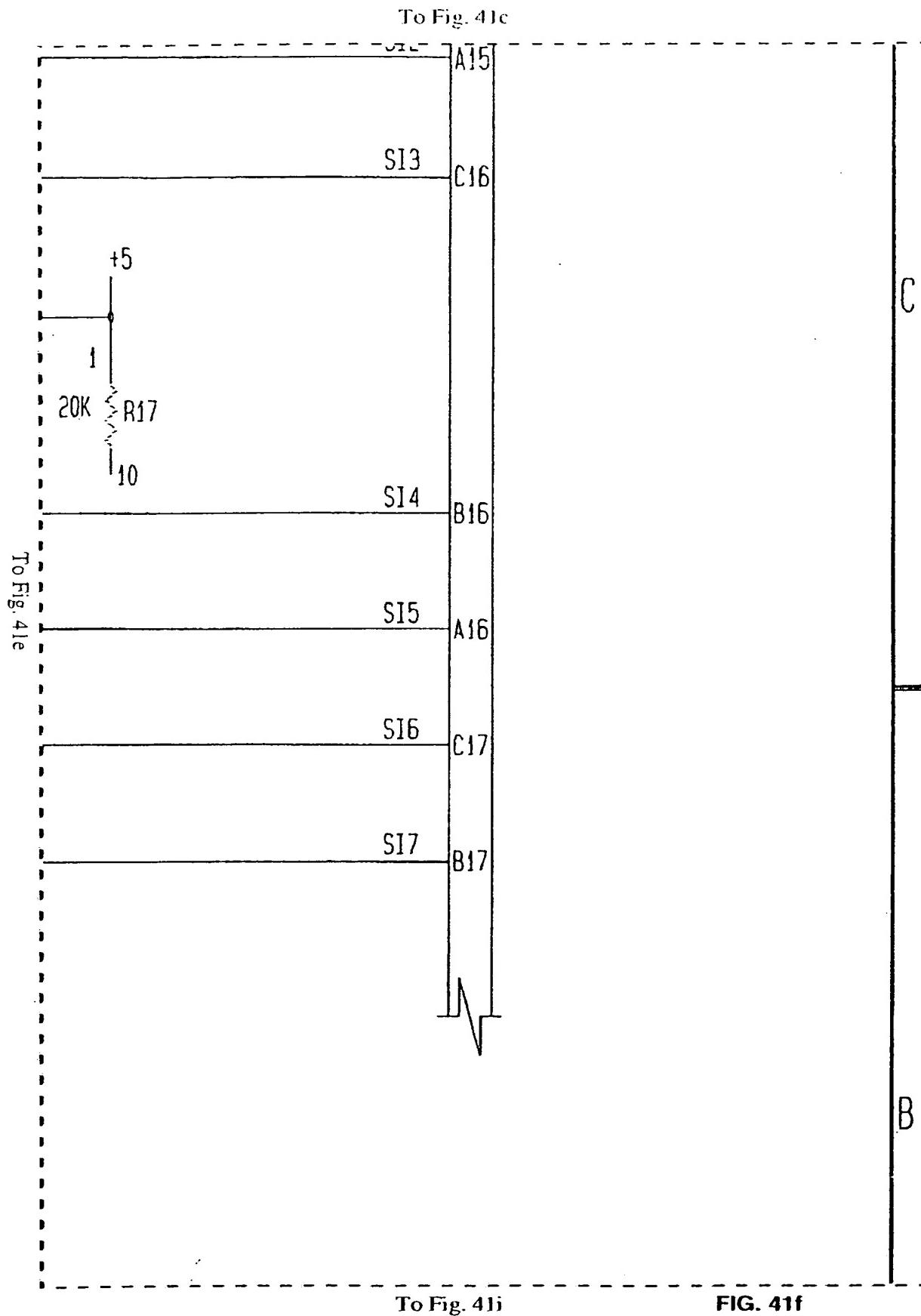


FIG. 41e

159 07 307



160 08207

To Fig. 41d

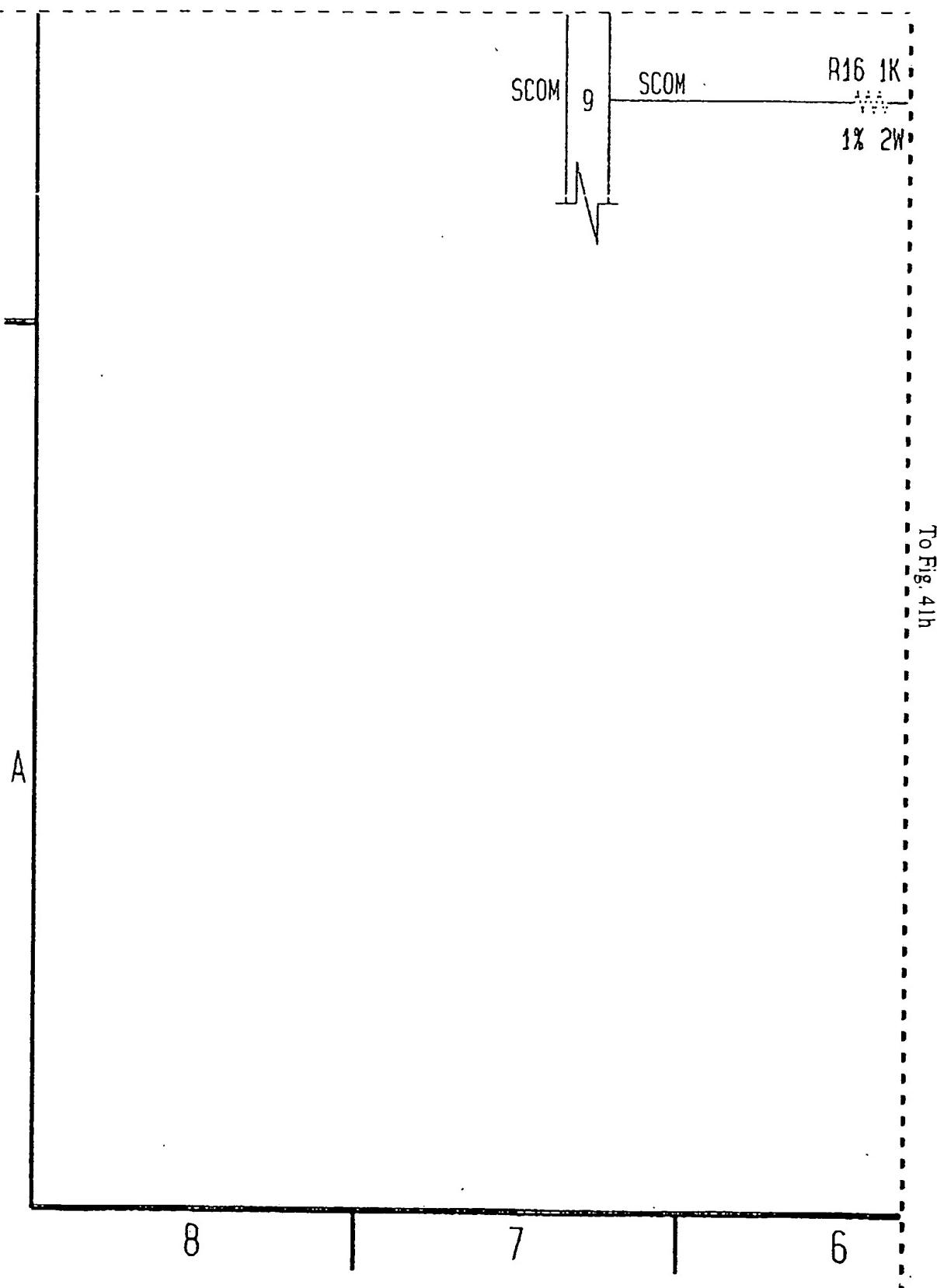
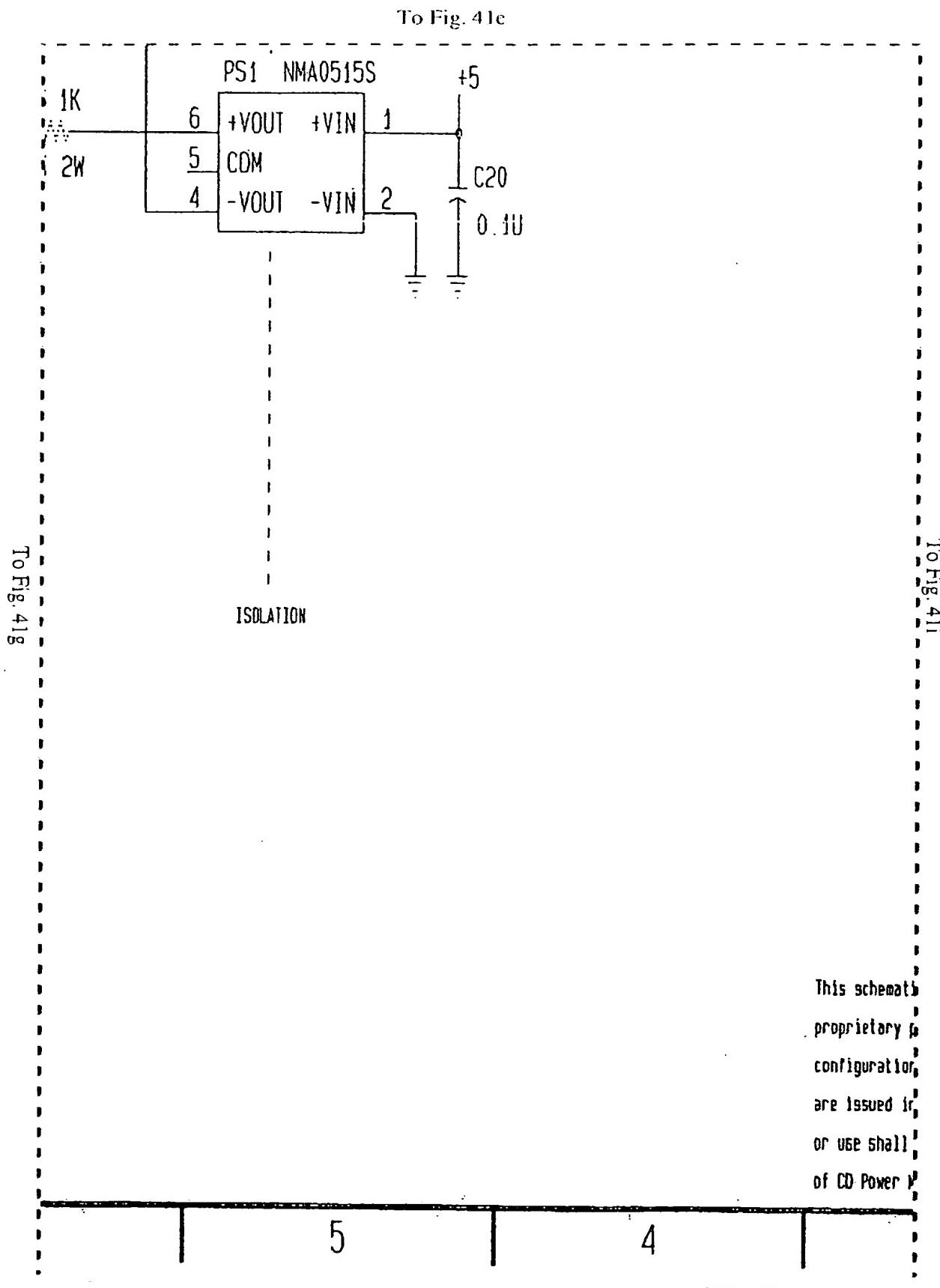


FIG. 41g

161 00307



162 08 067

To Fig. 41f

To Fig. 41h

A

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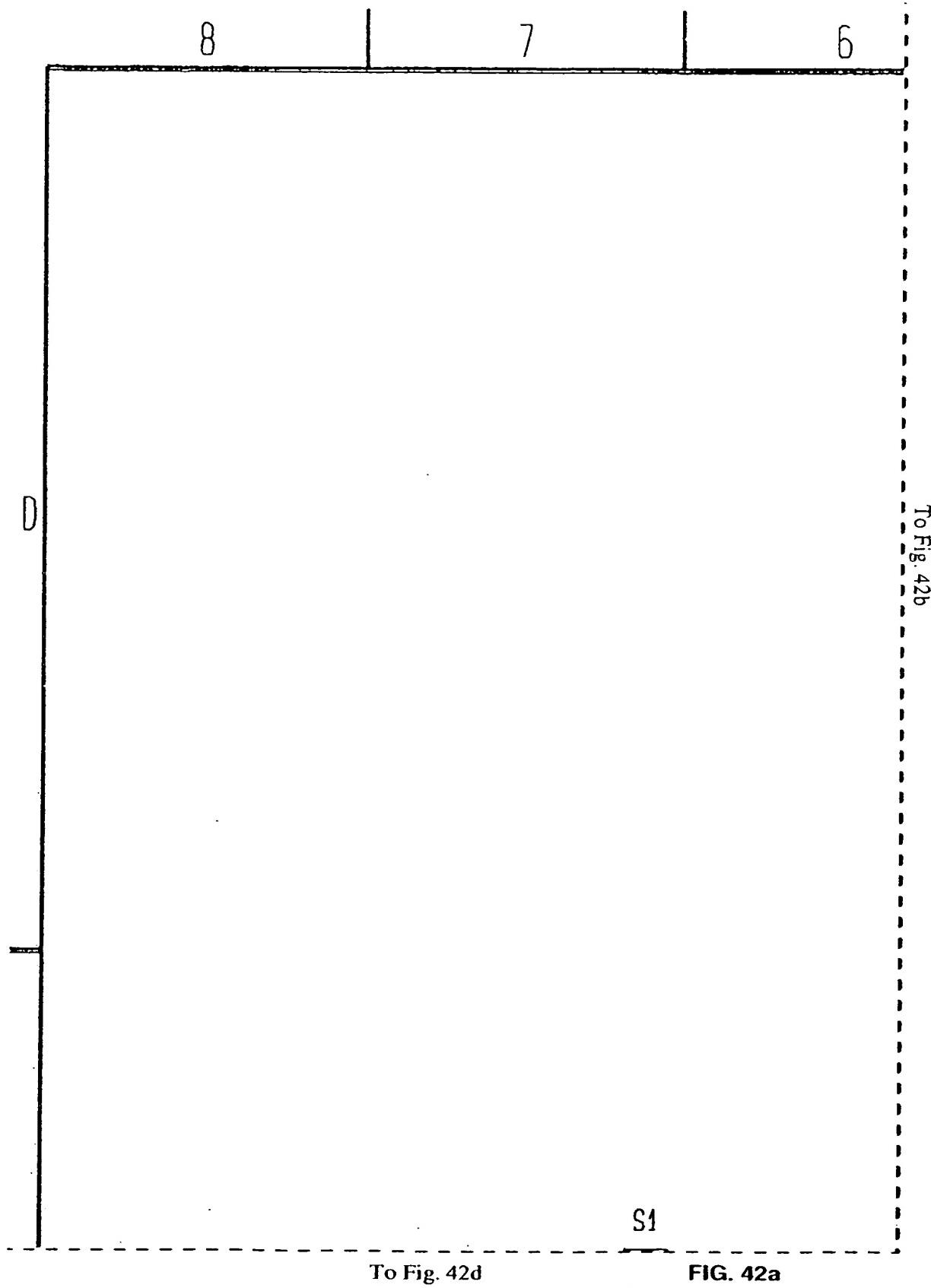
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FIG. 41i

Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

163 18 207



Patent Application for PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

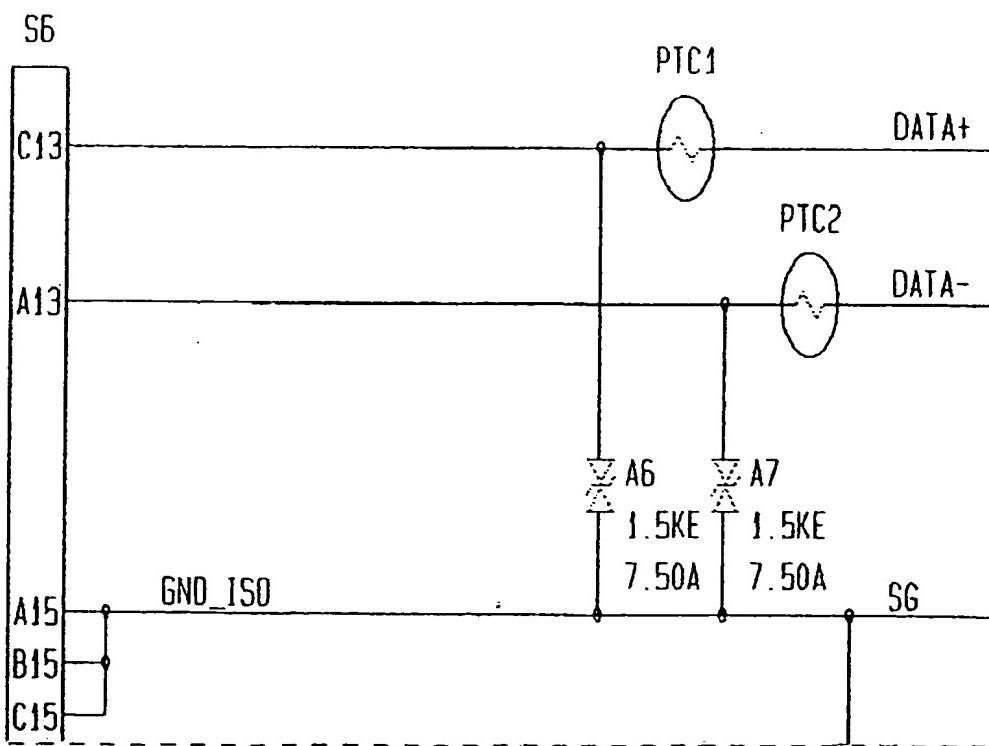
164 64 207

To Fig. 42a

To Fig. 42c

48 PIN EUROCARD

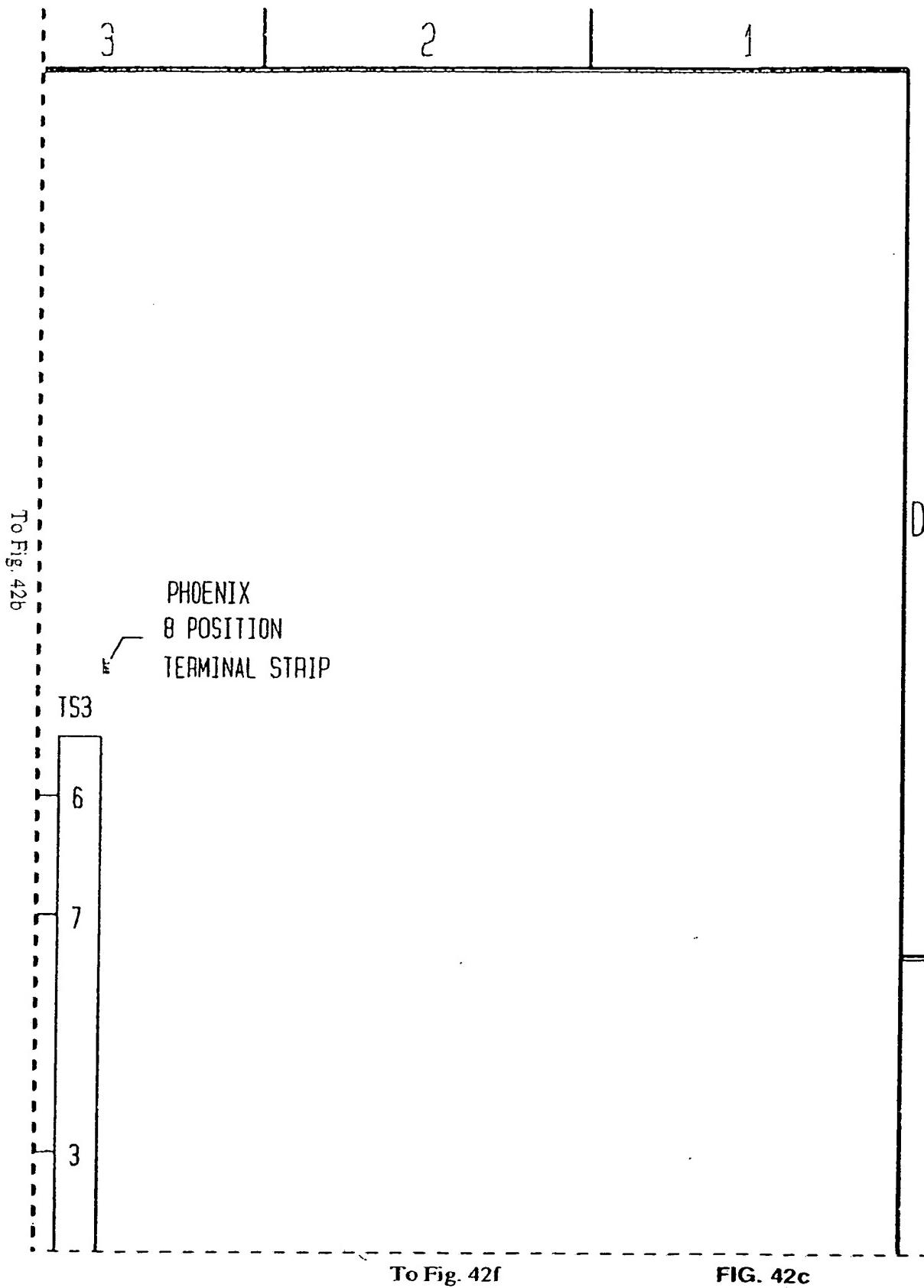
CONNECTOR



To Fig. 42e

FIG. 42b

165 17 207



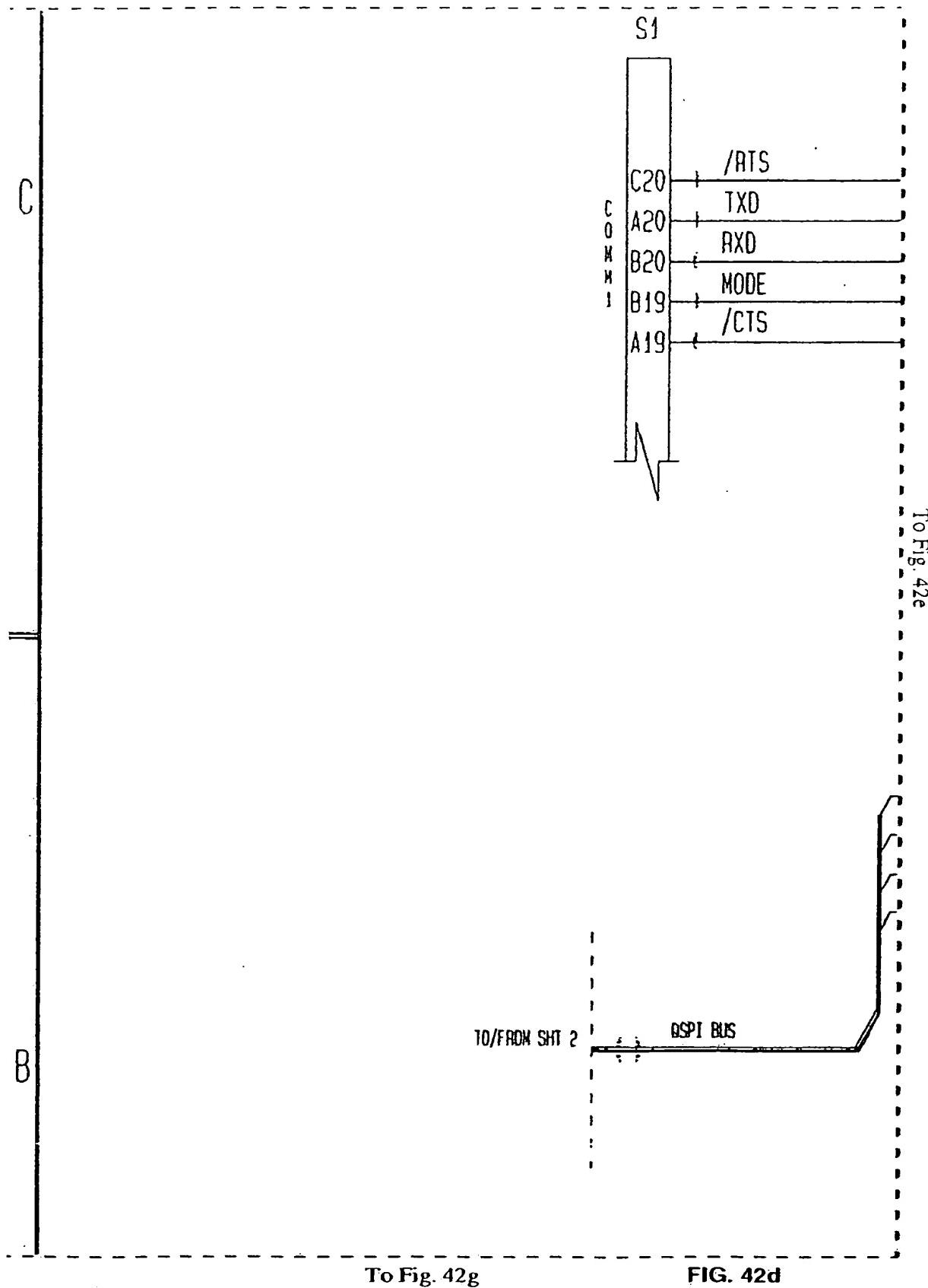
Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

166 08 07

To Fig. 42a



To Fig. 42g

FIG. 42d

Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

167 07 207

To Fig. 42b

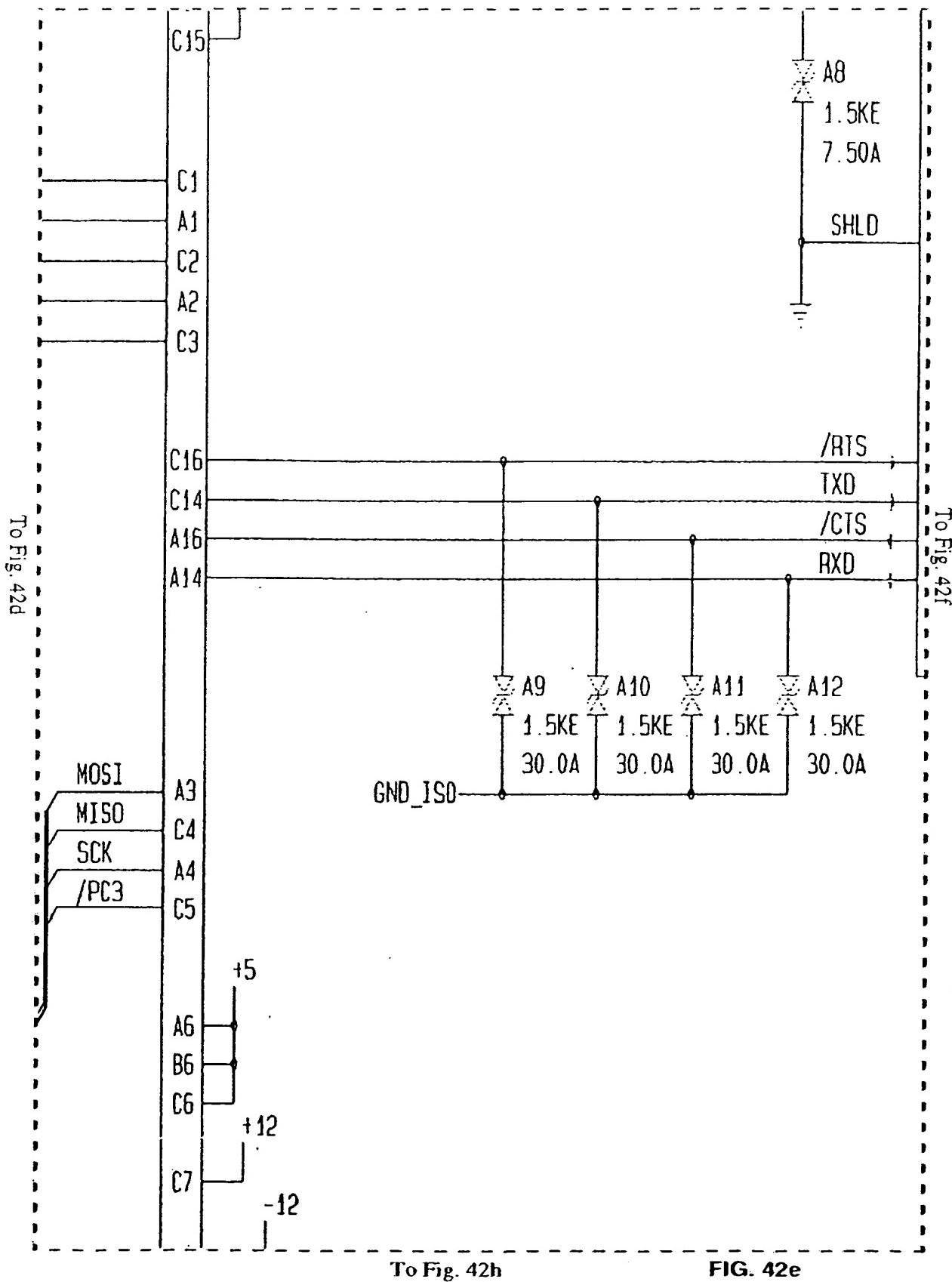
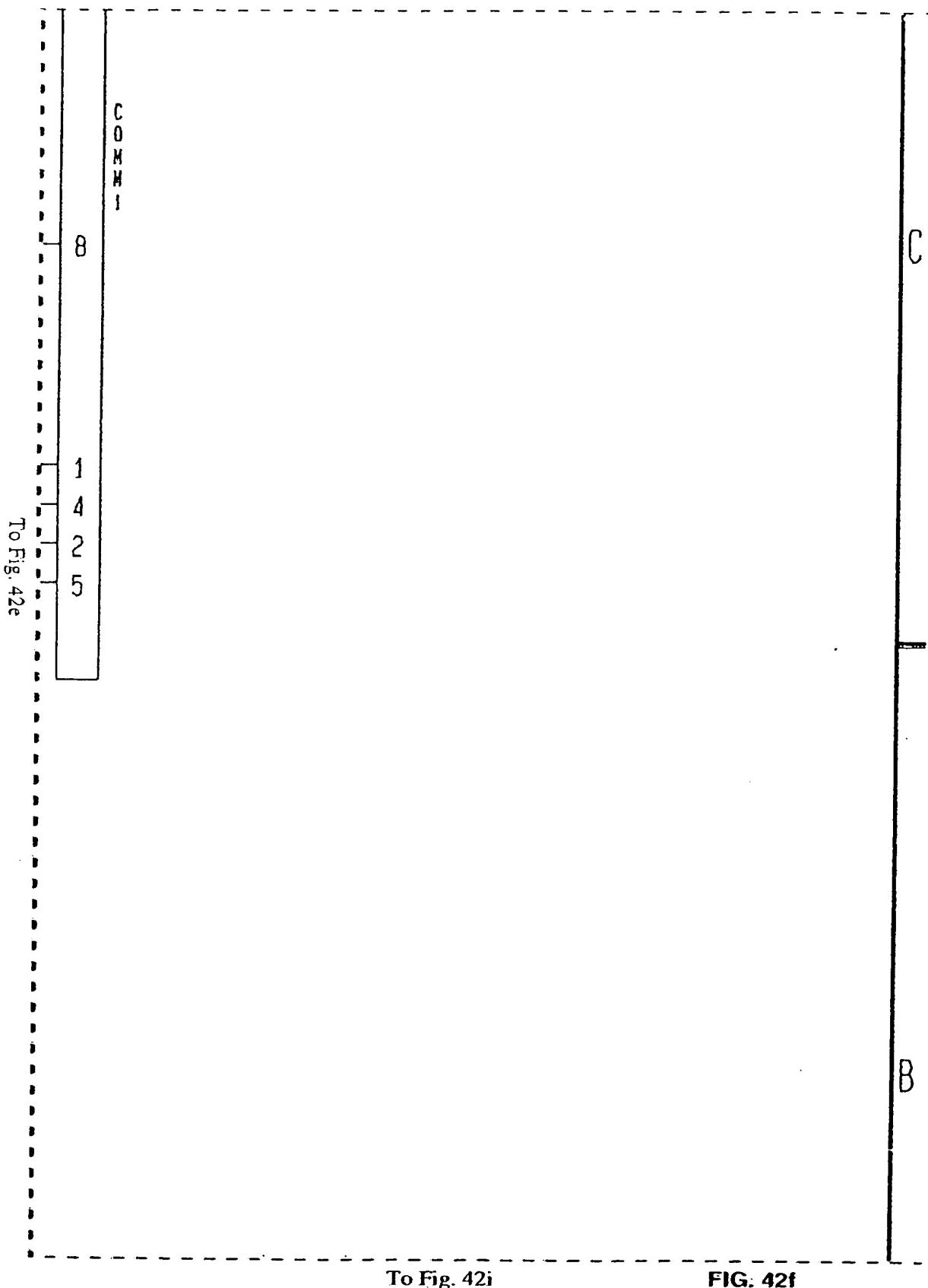


FIG. 42e

168 06 207

To Fig. 42c



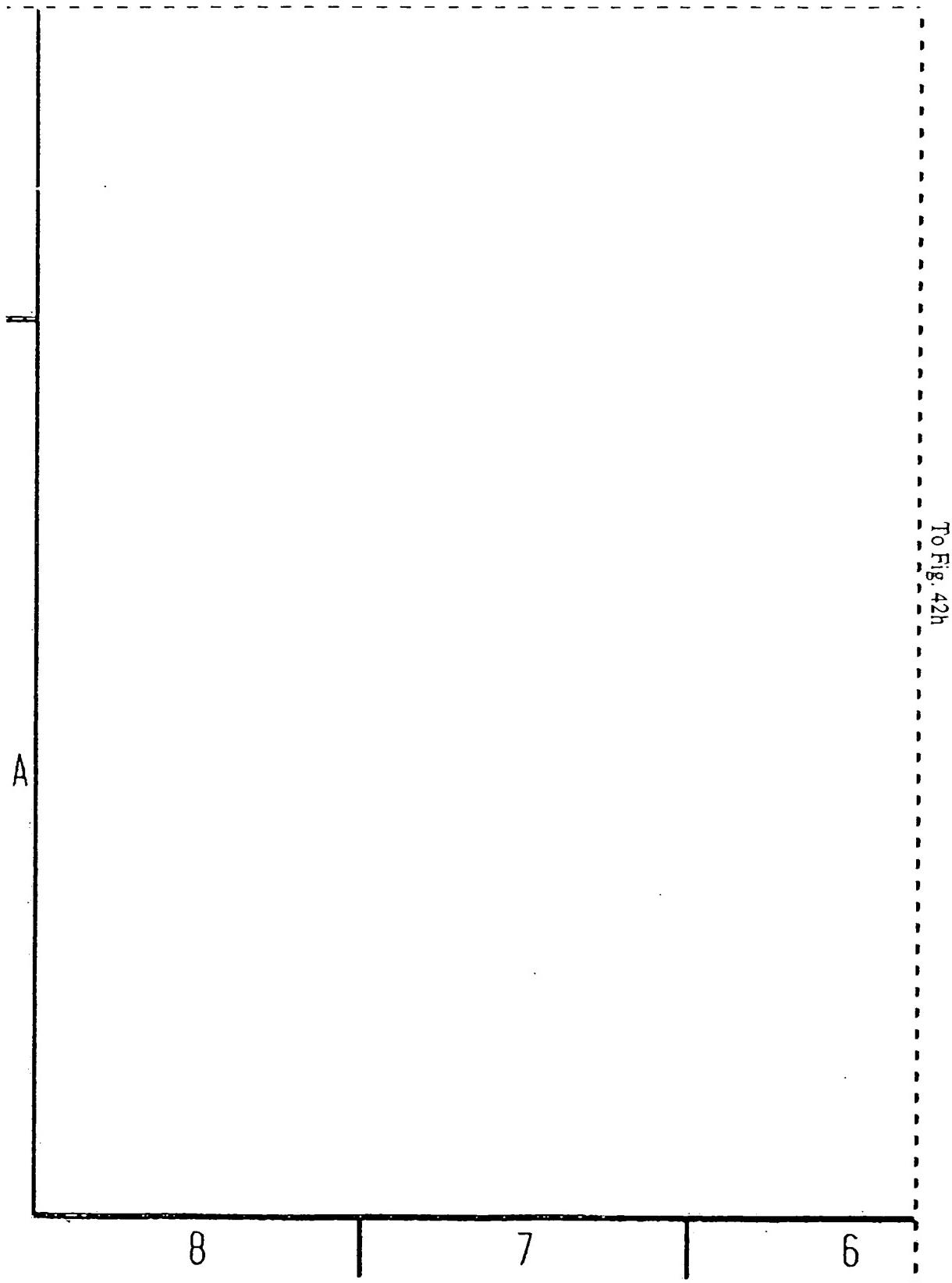
Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

169 07 207

To Fig. 42d



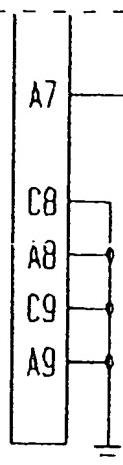
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FIG. 42g

To Fig. 42e



To Fig. 42i

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proprietary
configuration
are issued in
or use shall
of CD Power

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FIG. 42h

To Fig. 42f

To Fig. 42h

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FIG. 42i

172 9 807

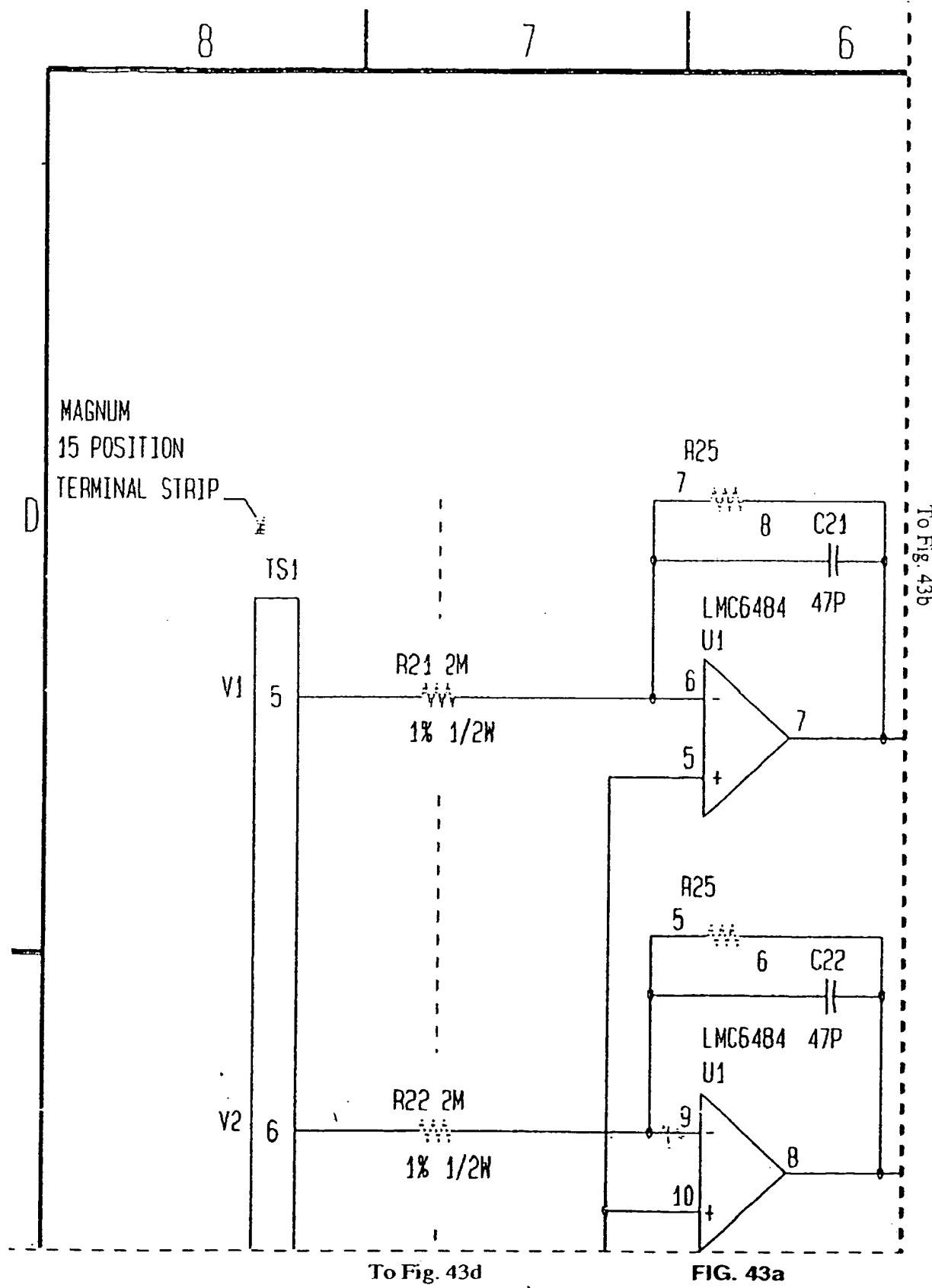
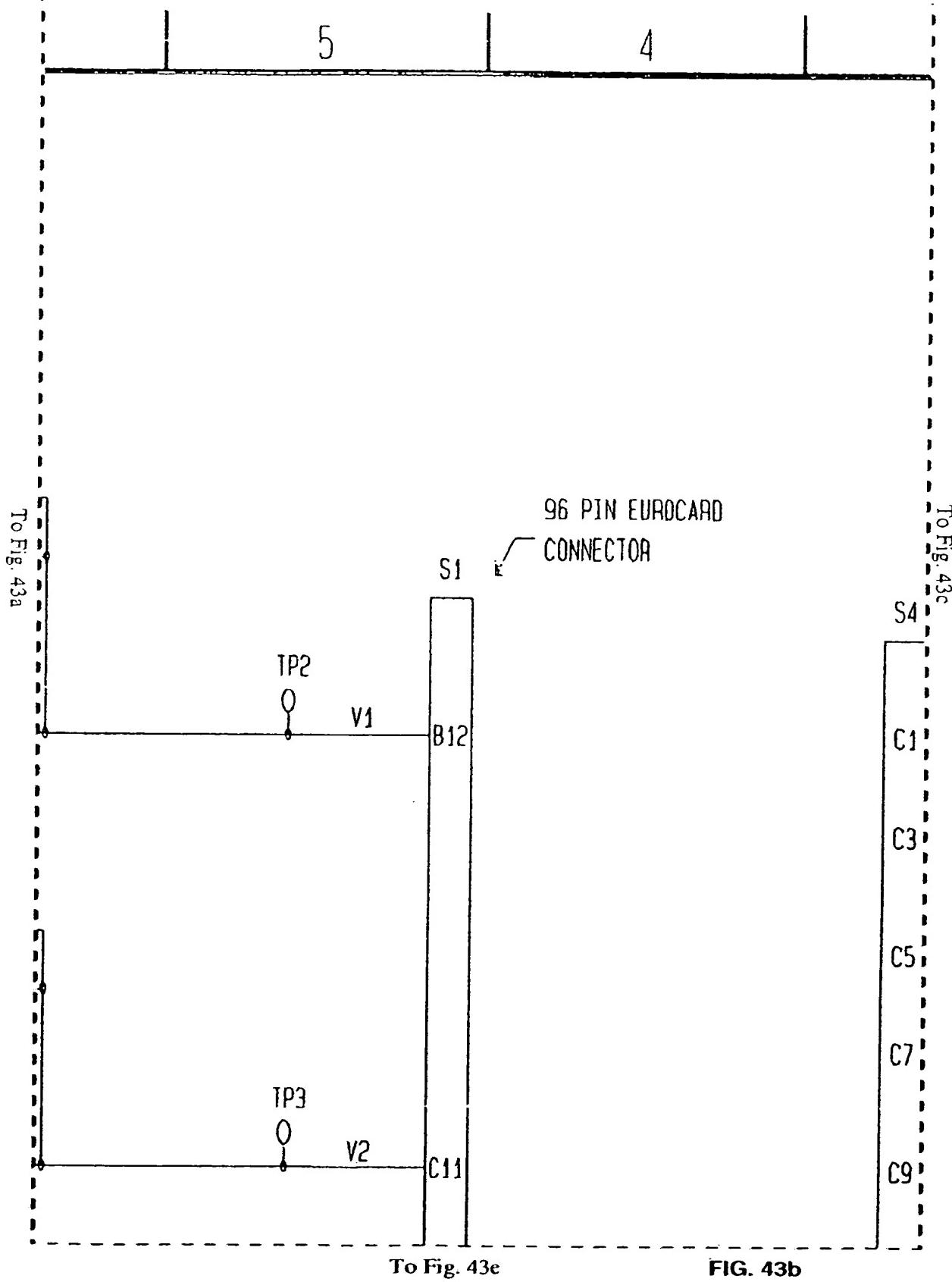
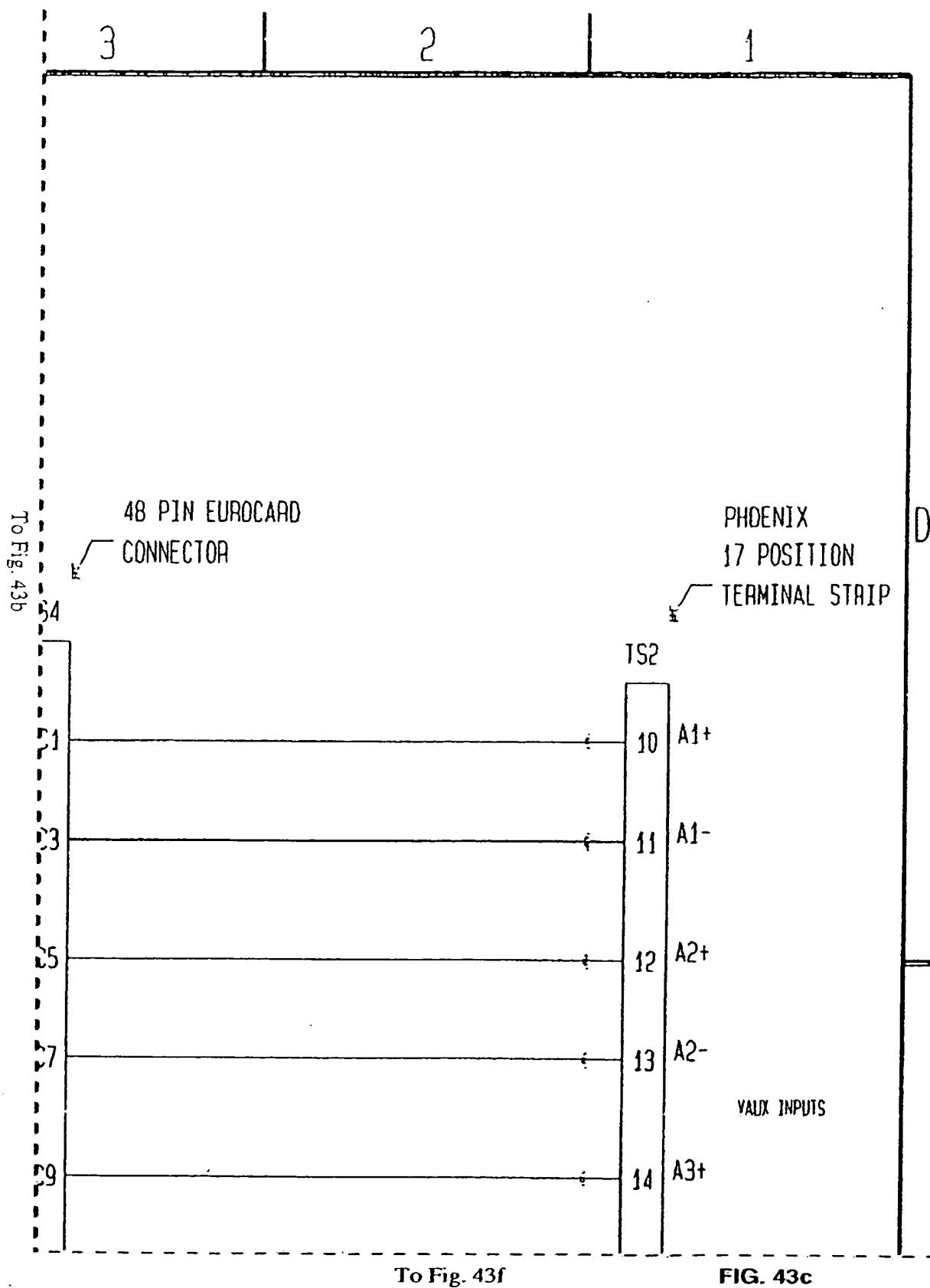


FIG. 43a

173 8 807



174 06 207



To Fig. 43a

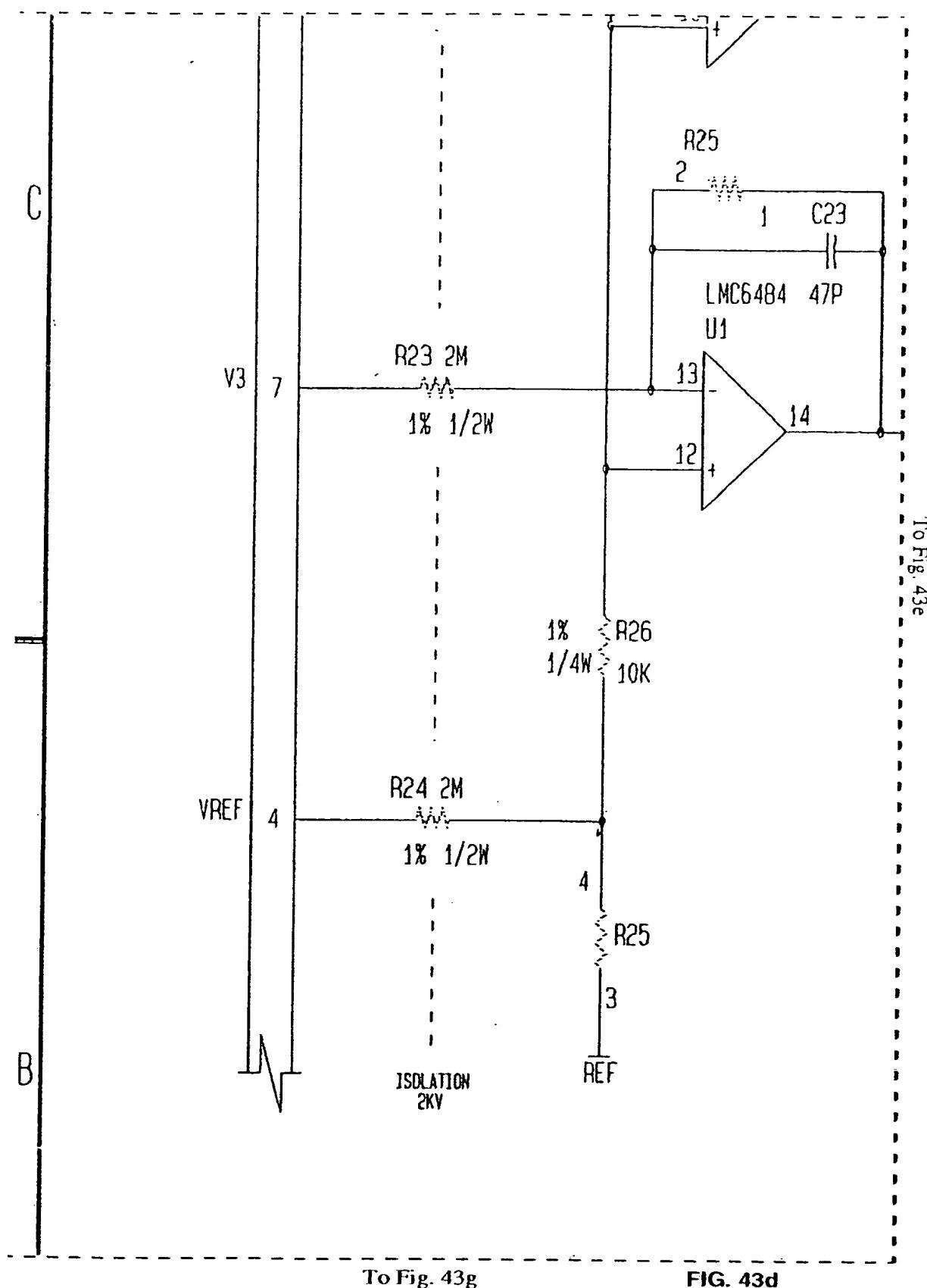


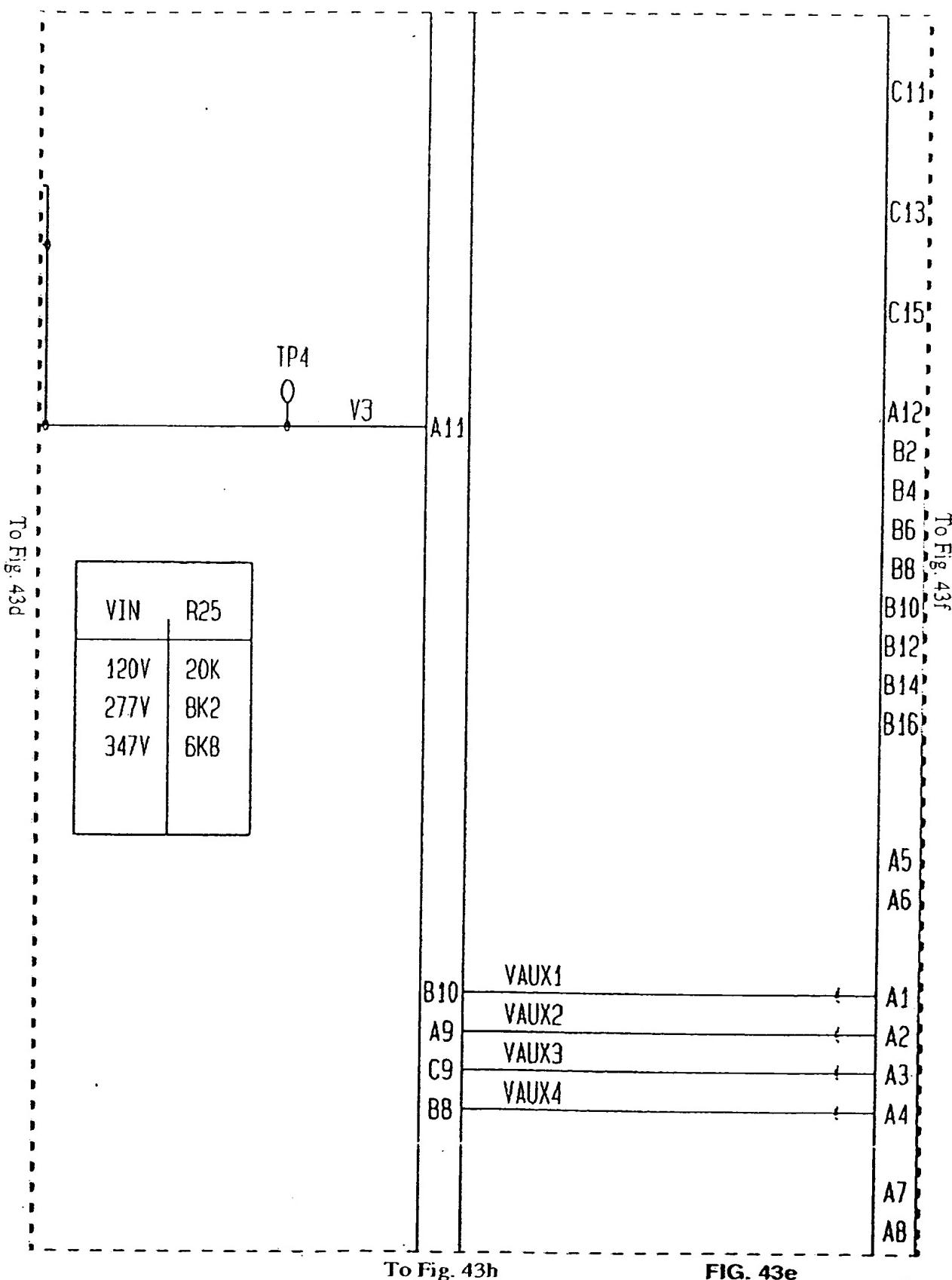
FIG. 43d

Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
MANAGEMENT OF ELECTRICITY DISTRIBUTION SYSTEMS

Inventor(s): Ronald G. Hart
Attorney Docket No. 6270/76, Serial No. 10/068,431

176 08 8-07

To Fig. 43b

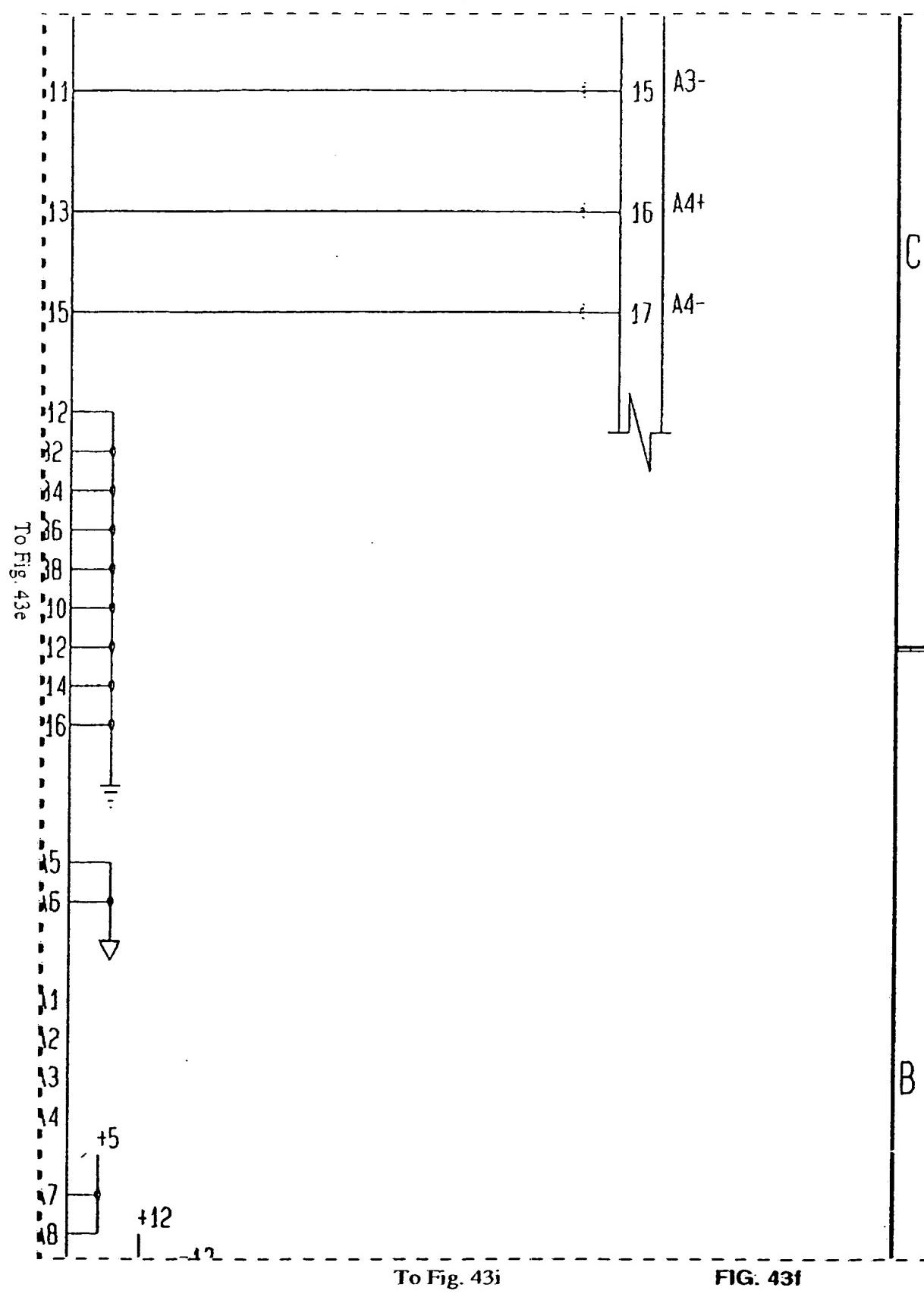


To Fig. 43h

FIG. 43e

177 88 807

To Fig. 43c



Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

178 v6 807

To Fig. 43d

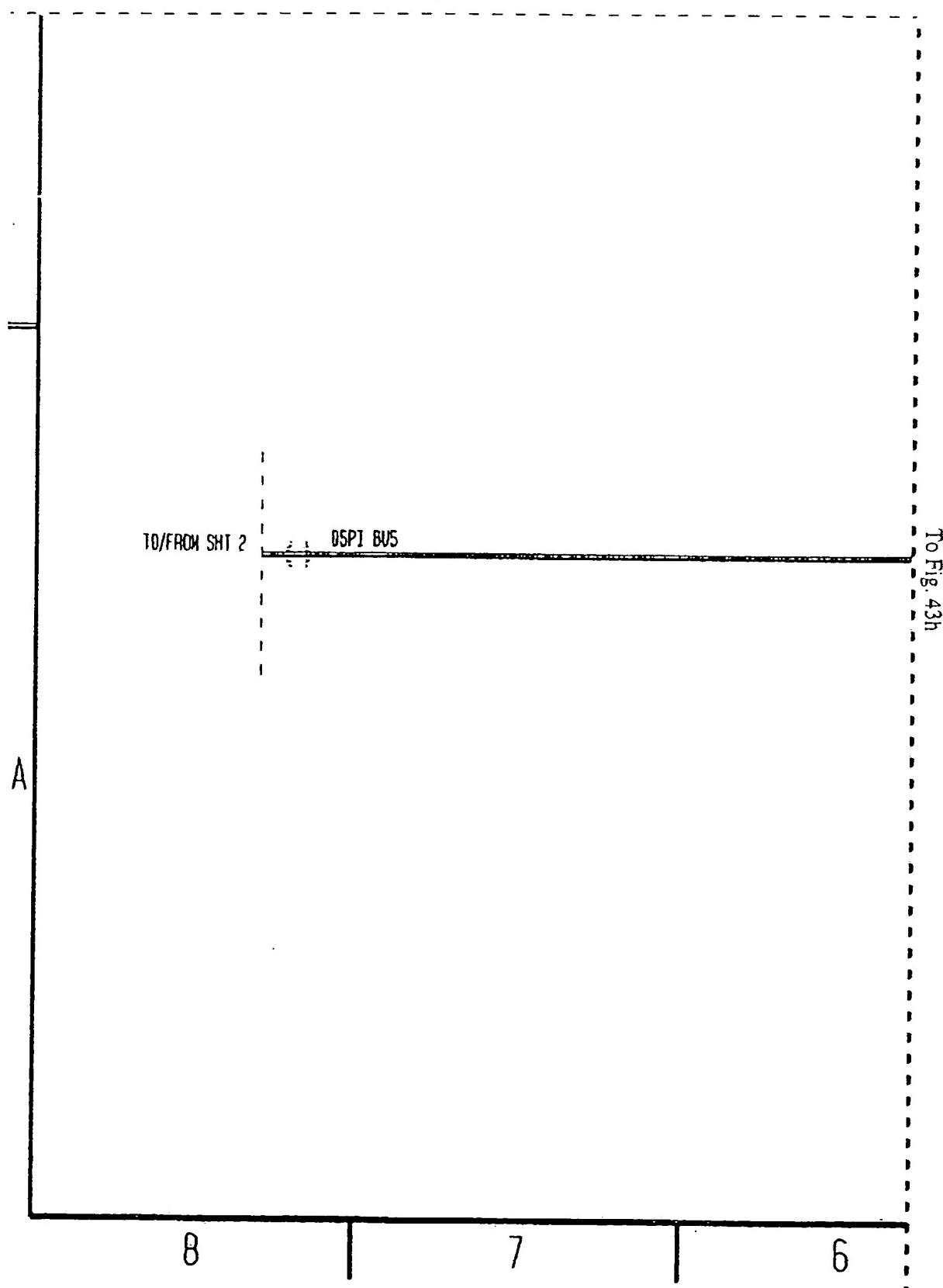
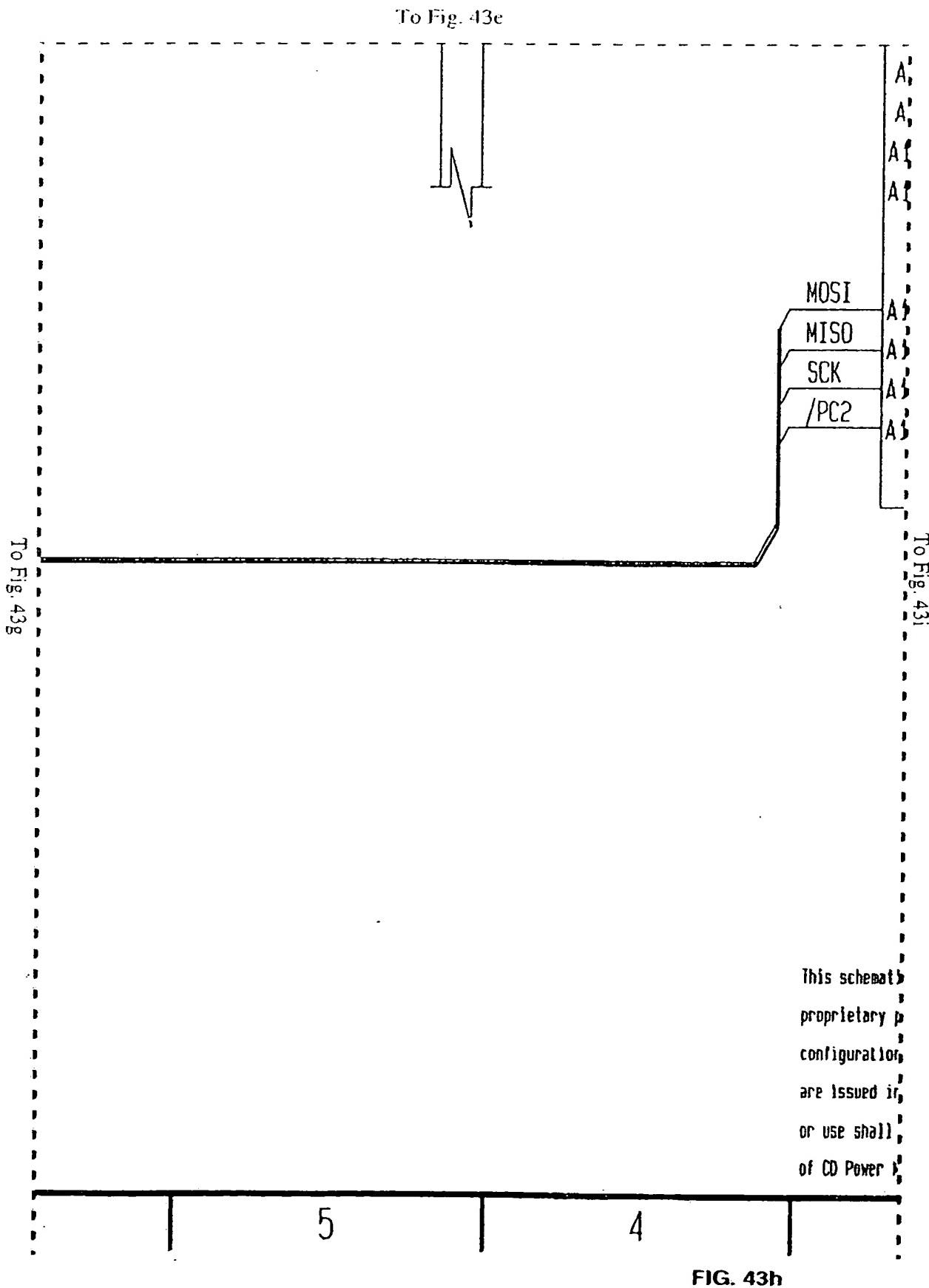


FIG. 43g



180 8 307

To Fig. 43f

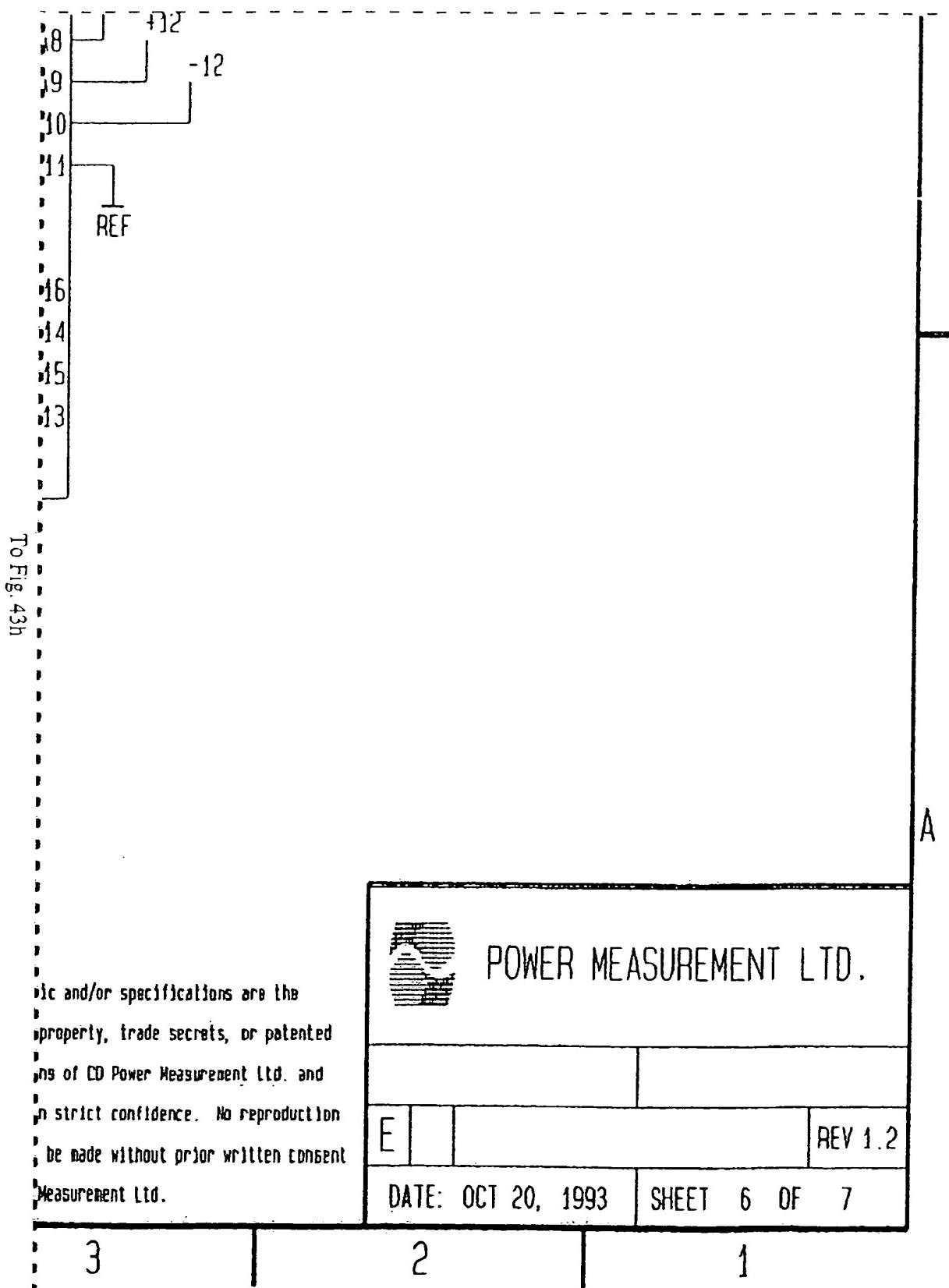
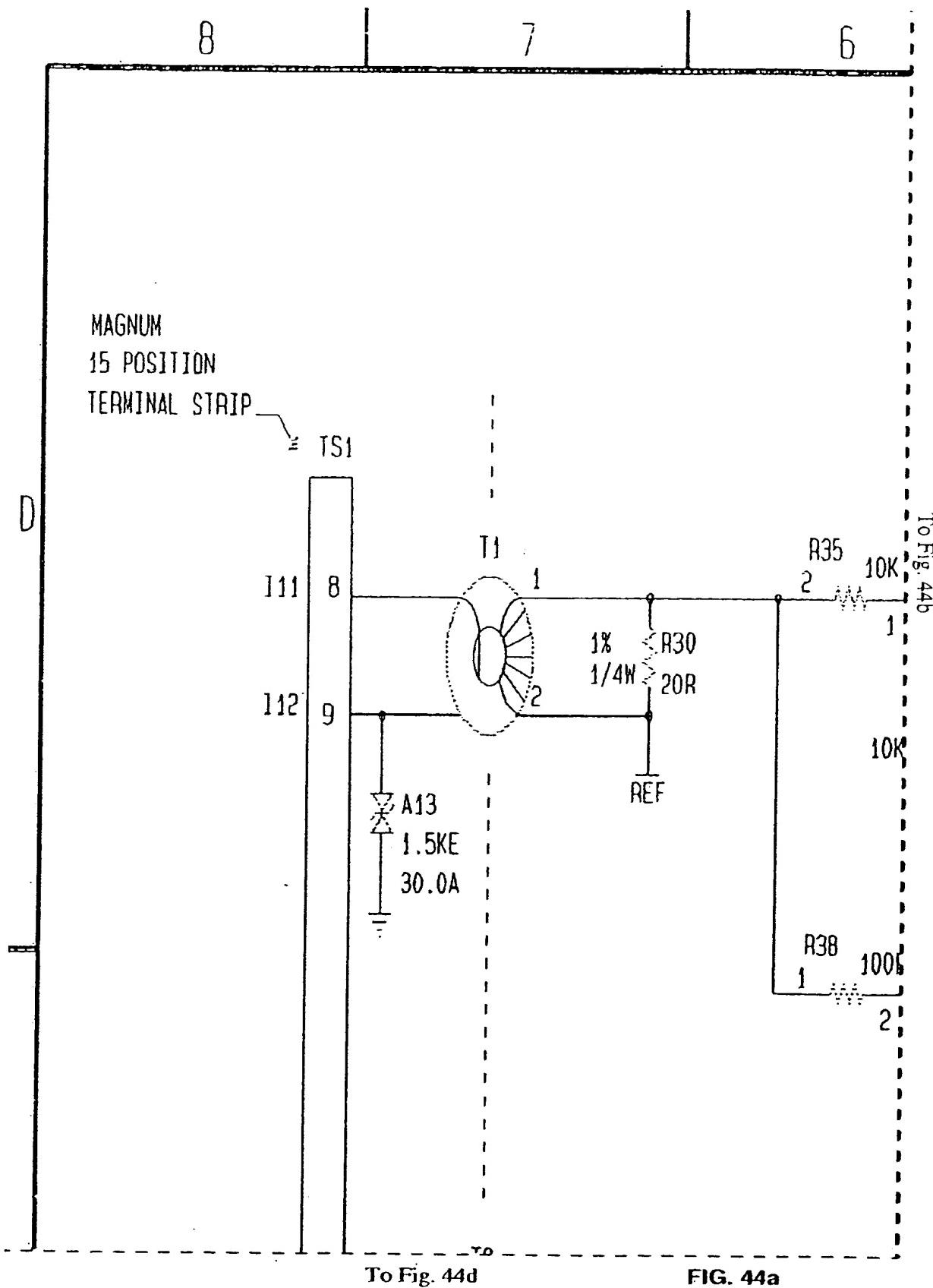
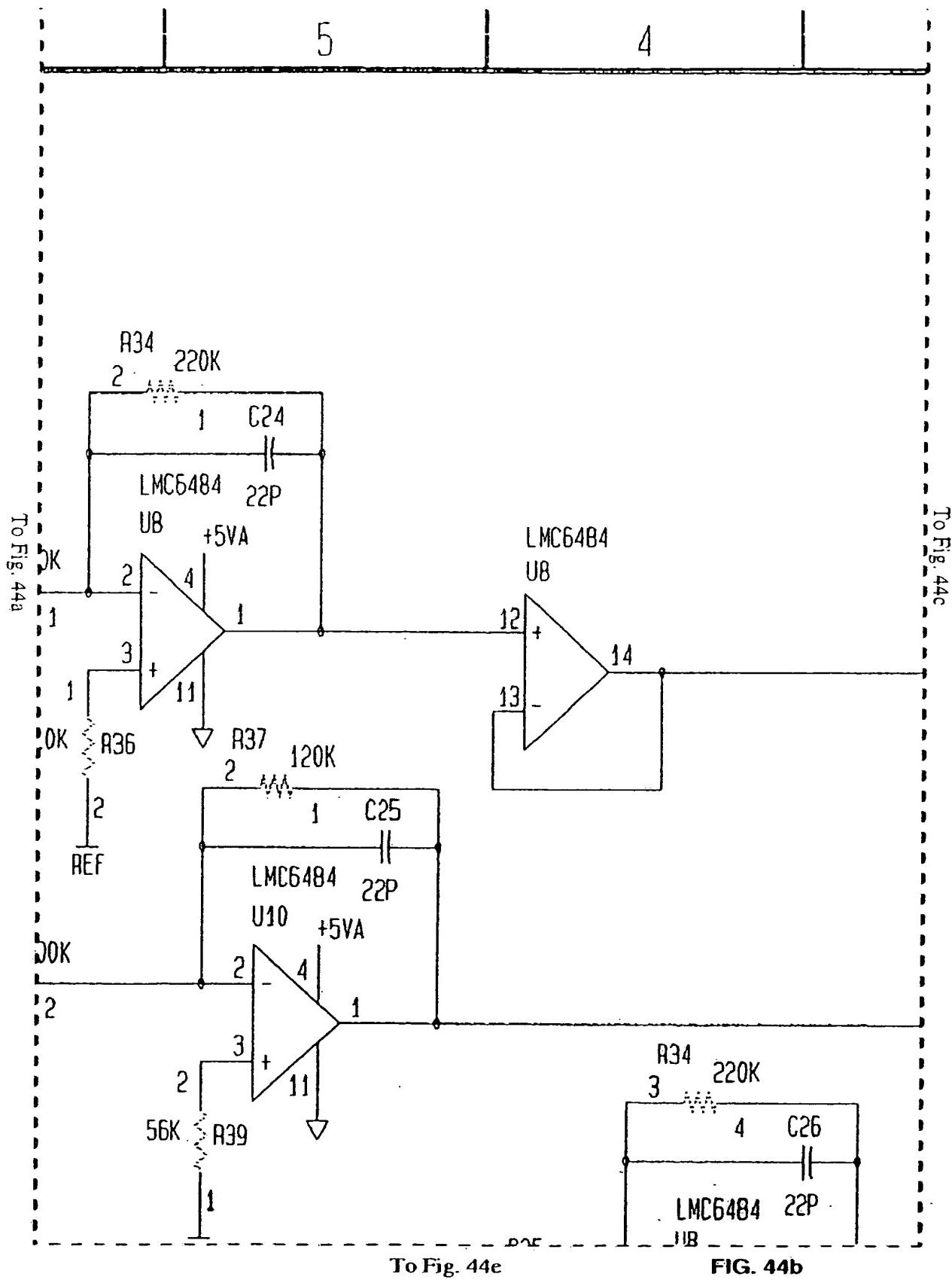


FIG. 43i



182 8207



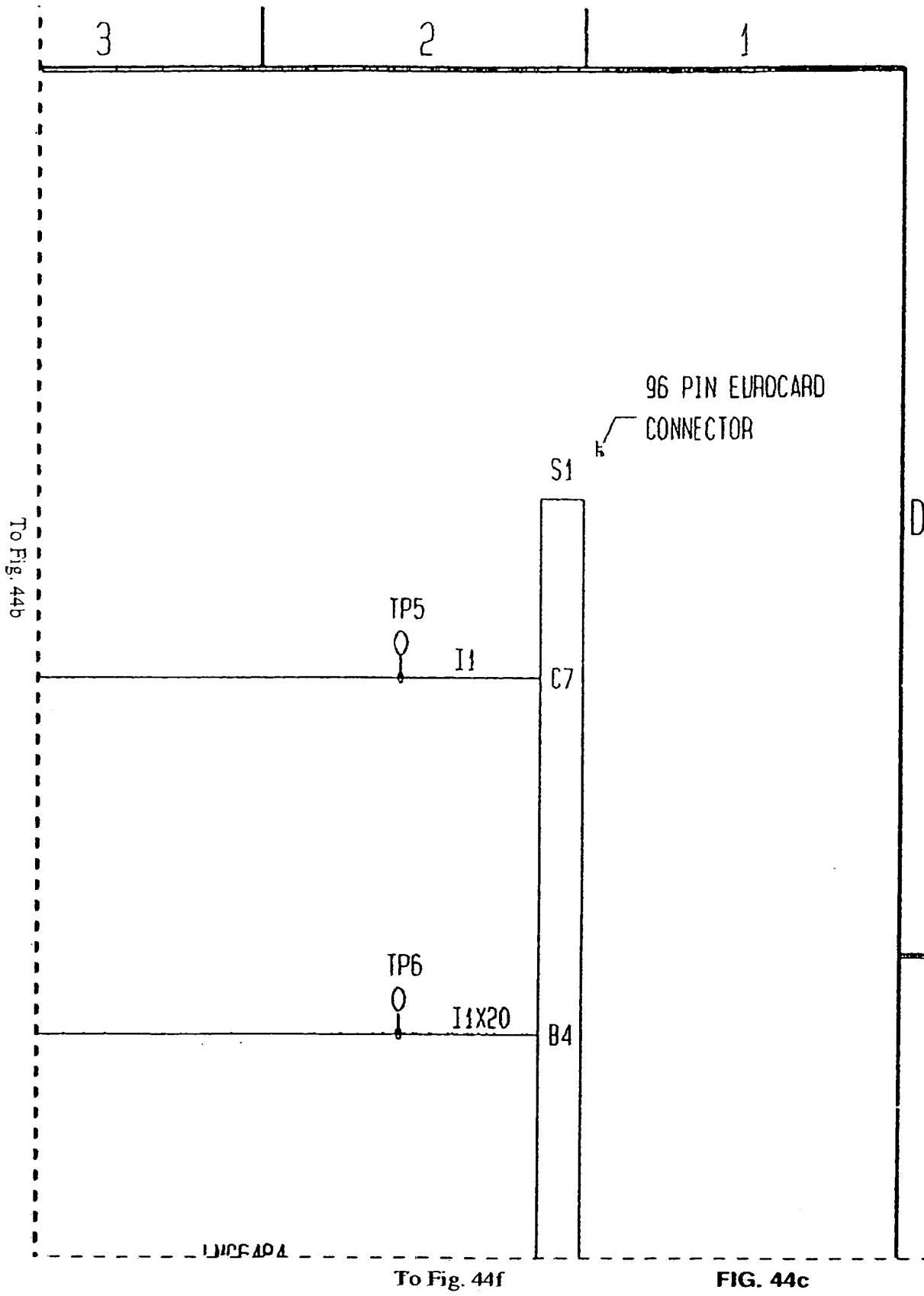
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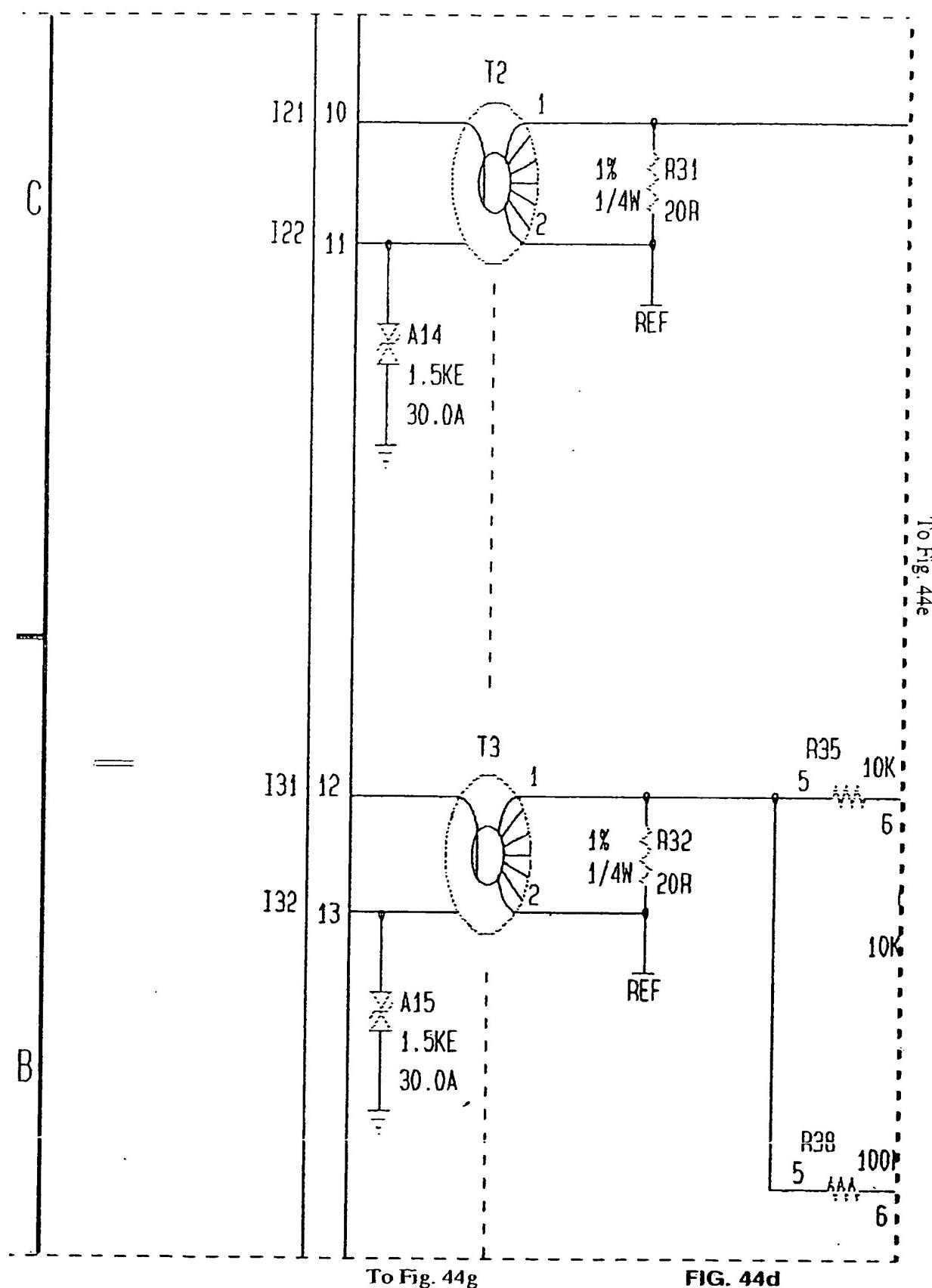
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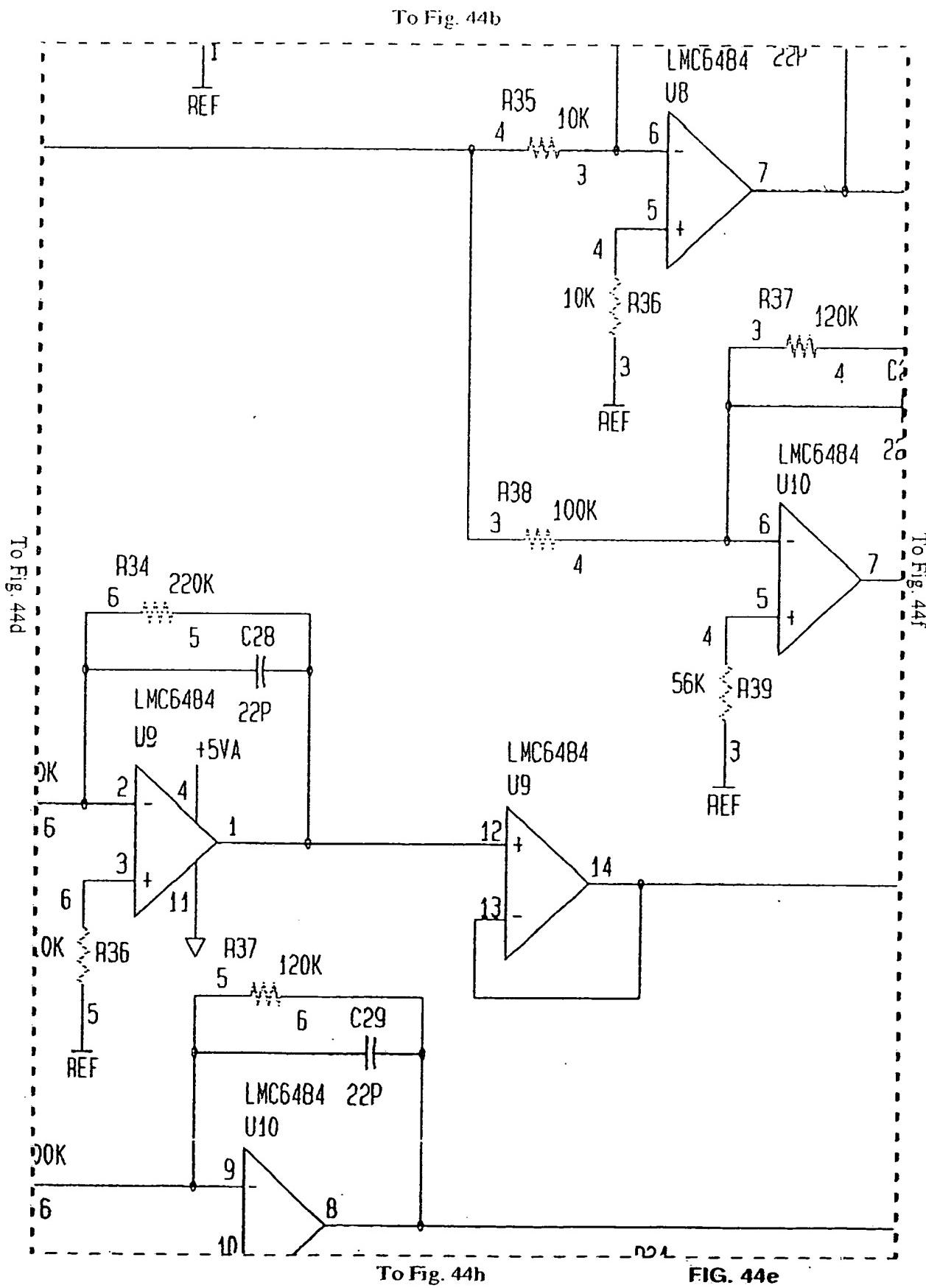
183 10 207

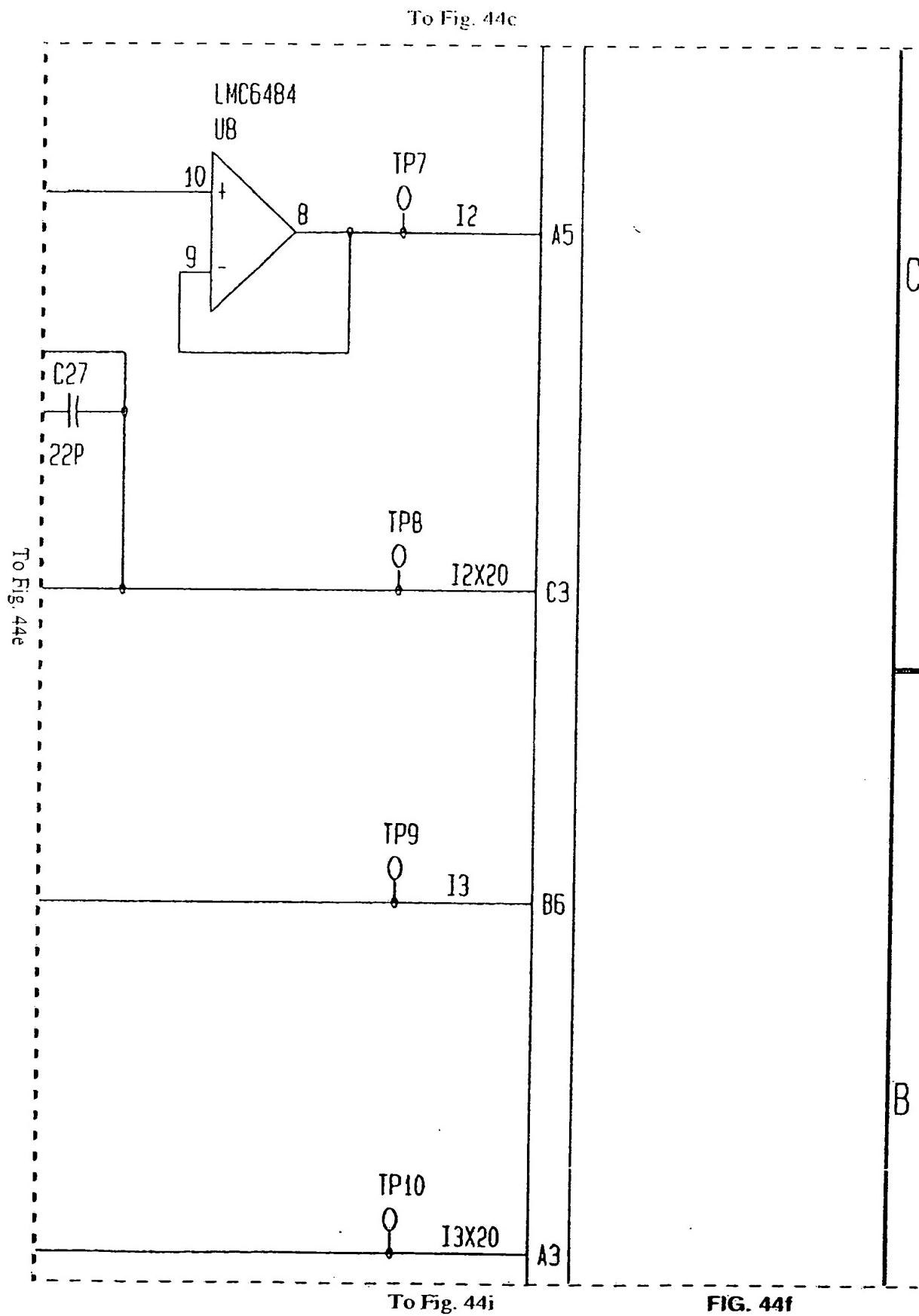


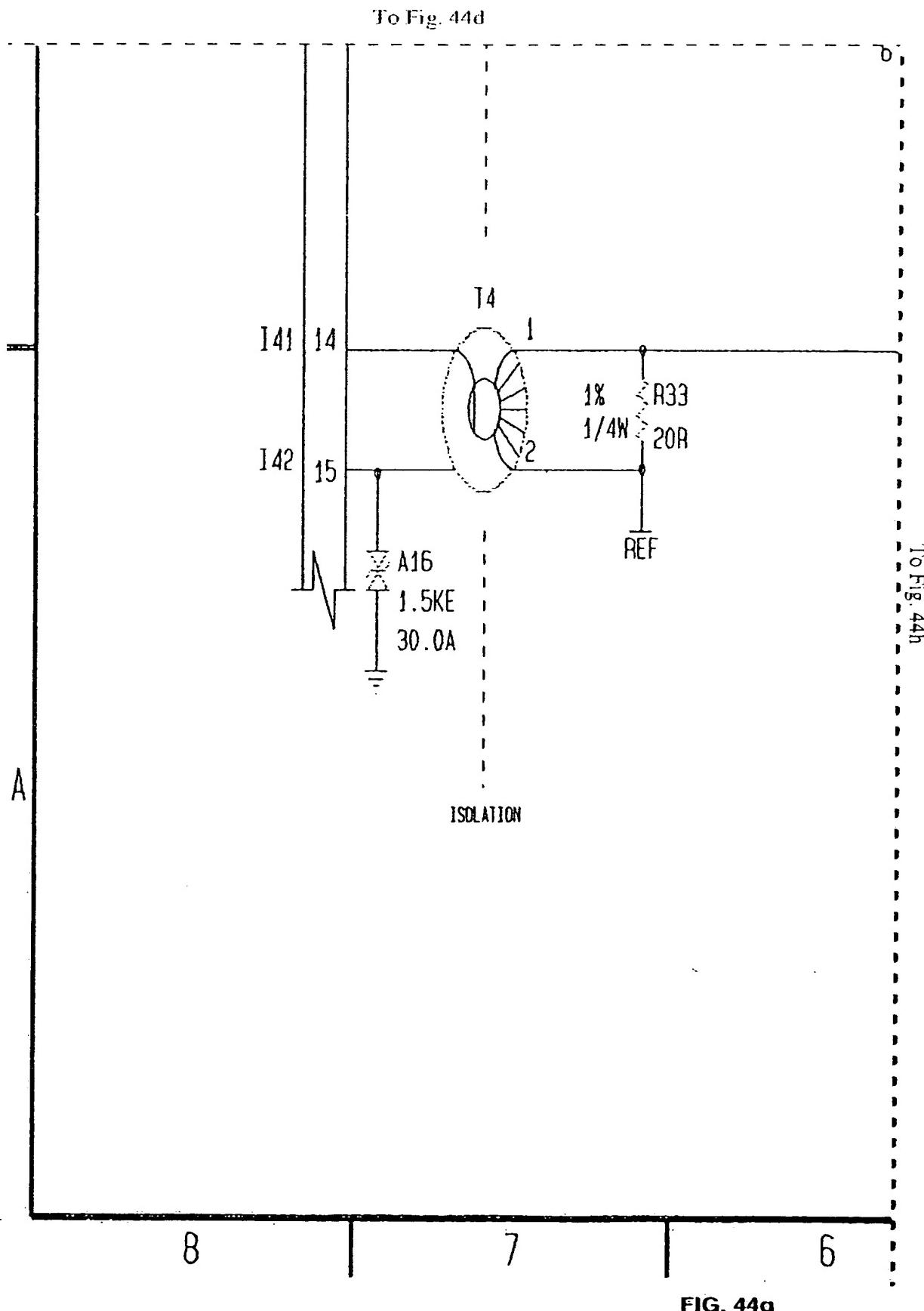
To Fig. 44a

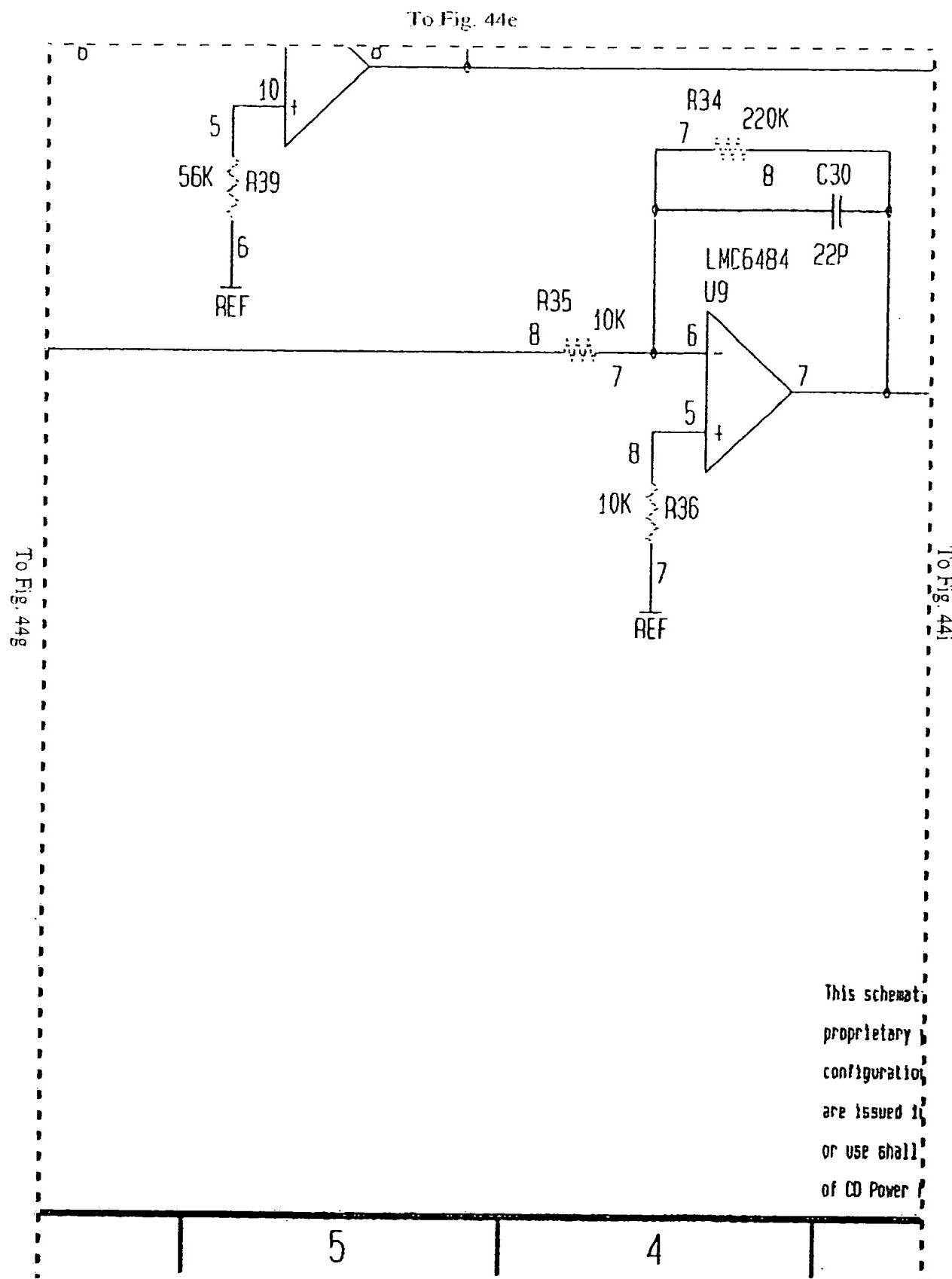


185 0 207









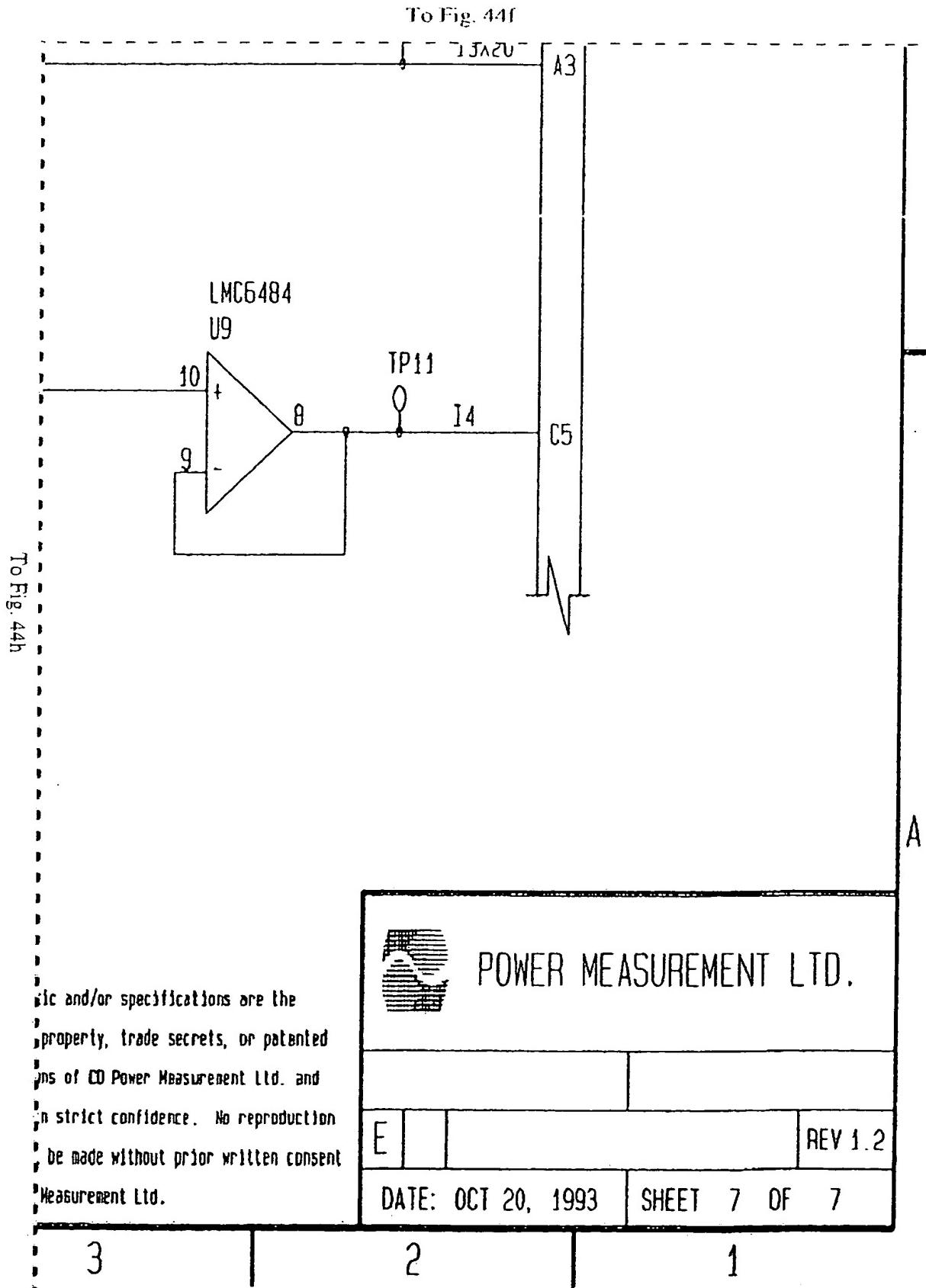
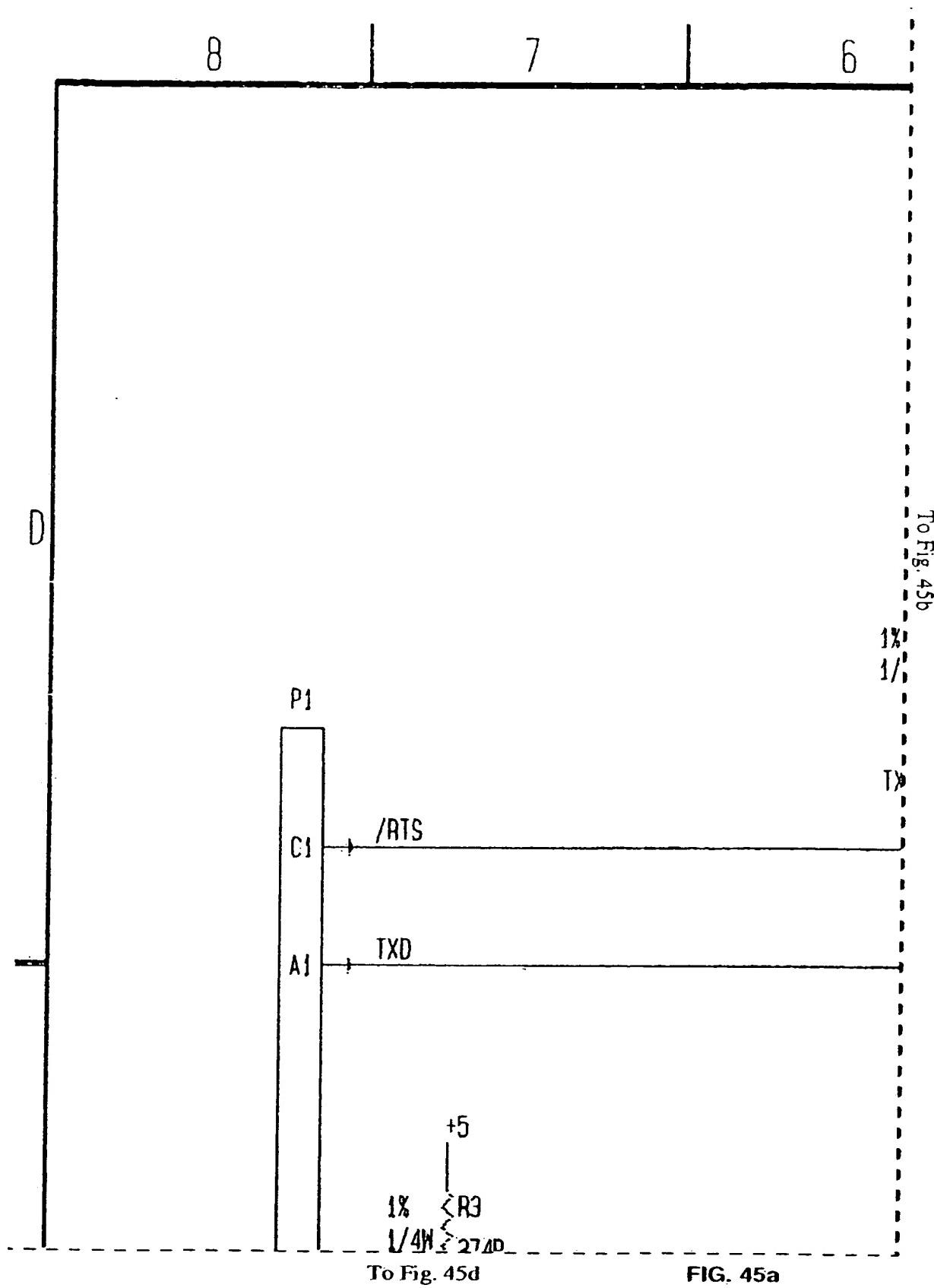


FIG. 44i



Patent Application for: PHASOR TRANSDUCER APPARATUS AND SYSTEM FOR PROTECTION, CONTROL, AND
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Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

191 8 207

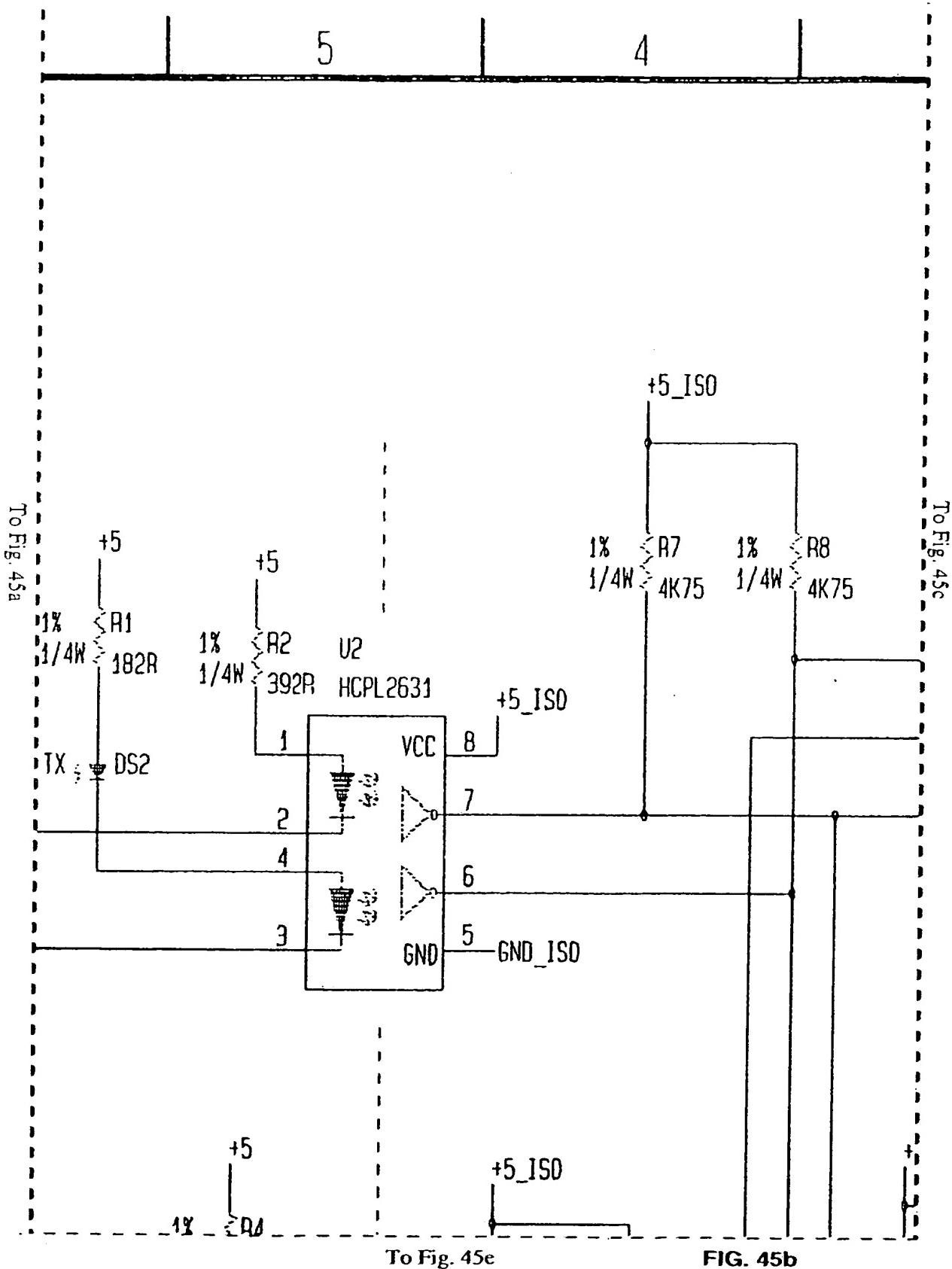


FIG. 45b

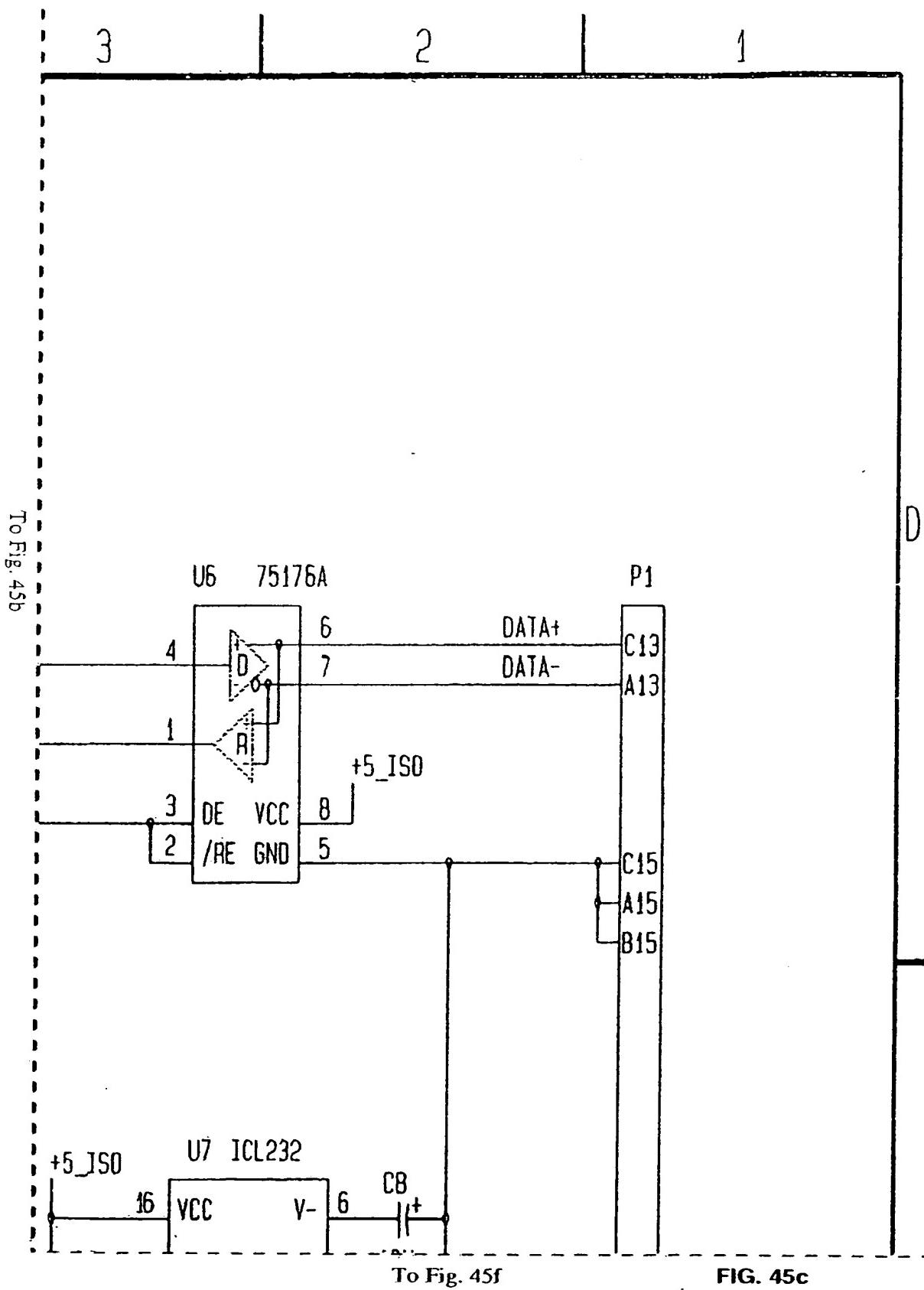
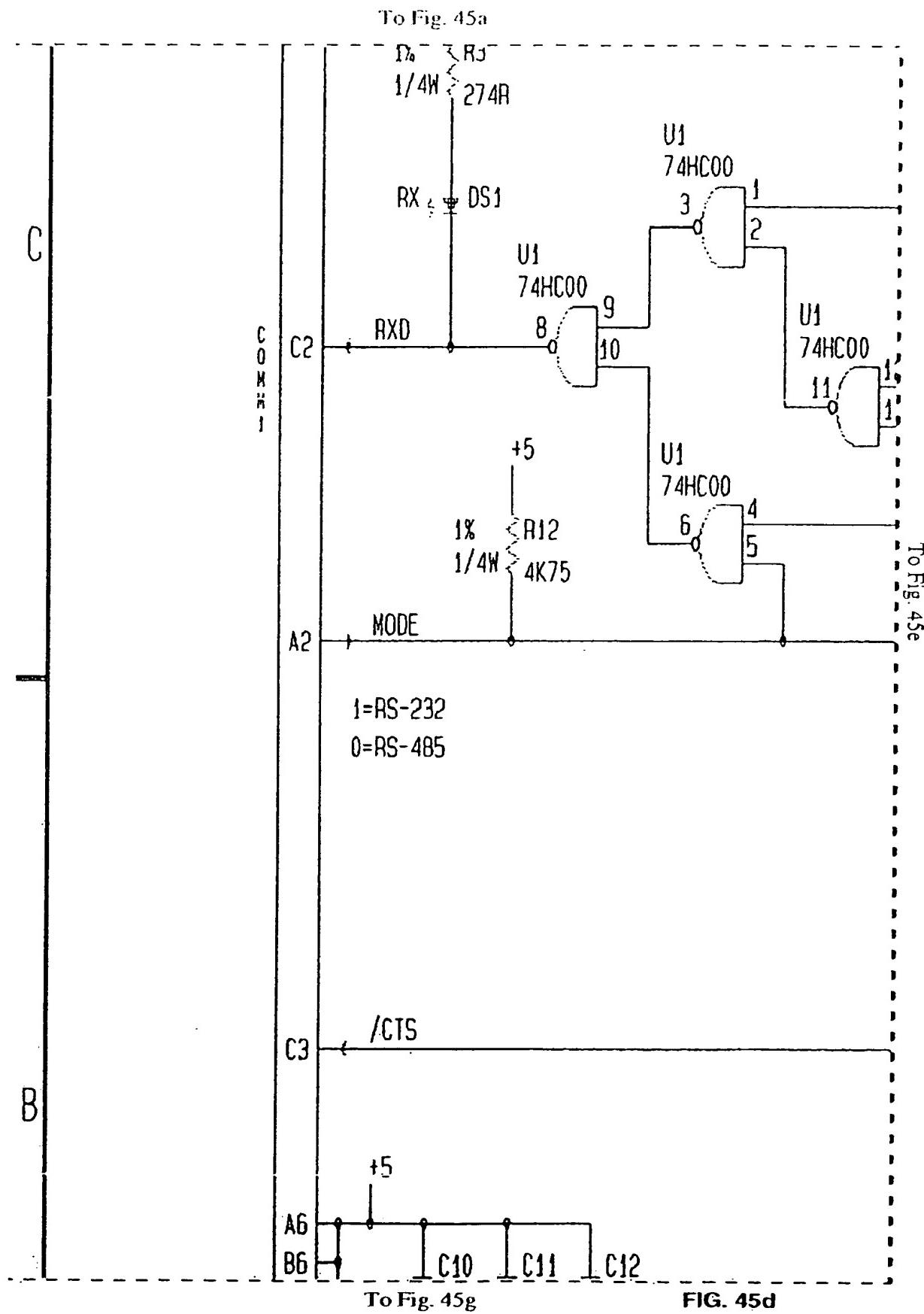
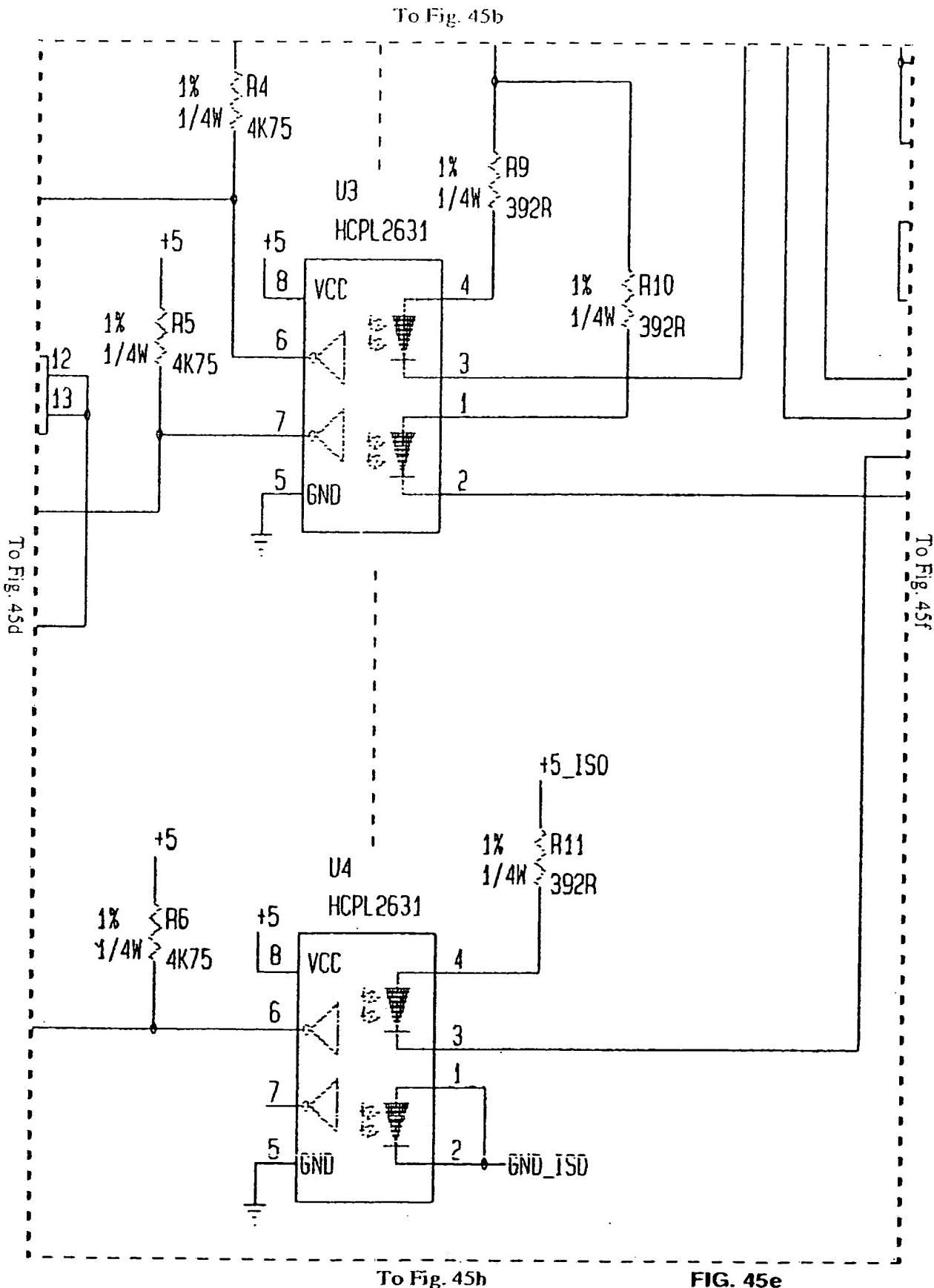
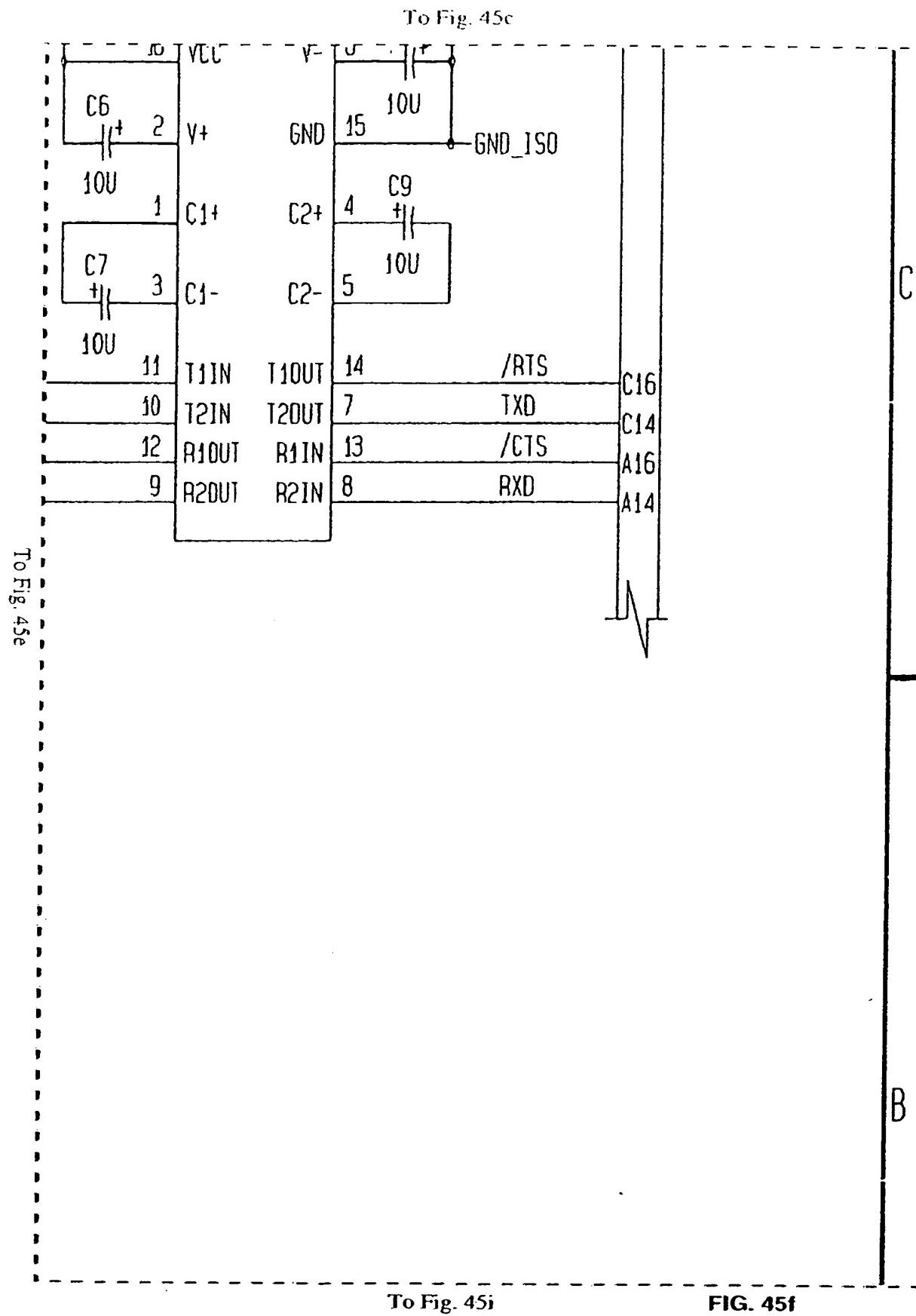
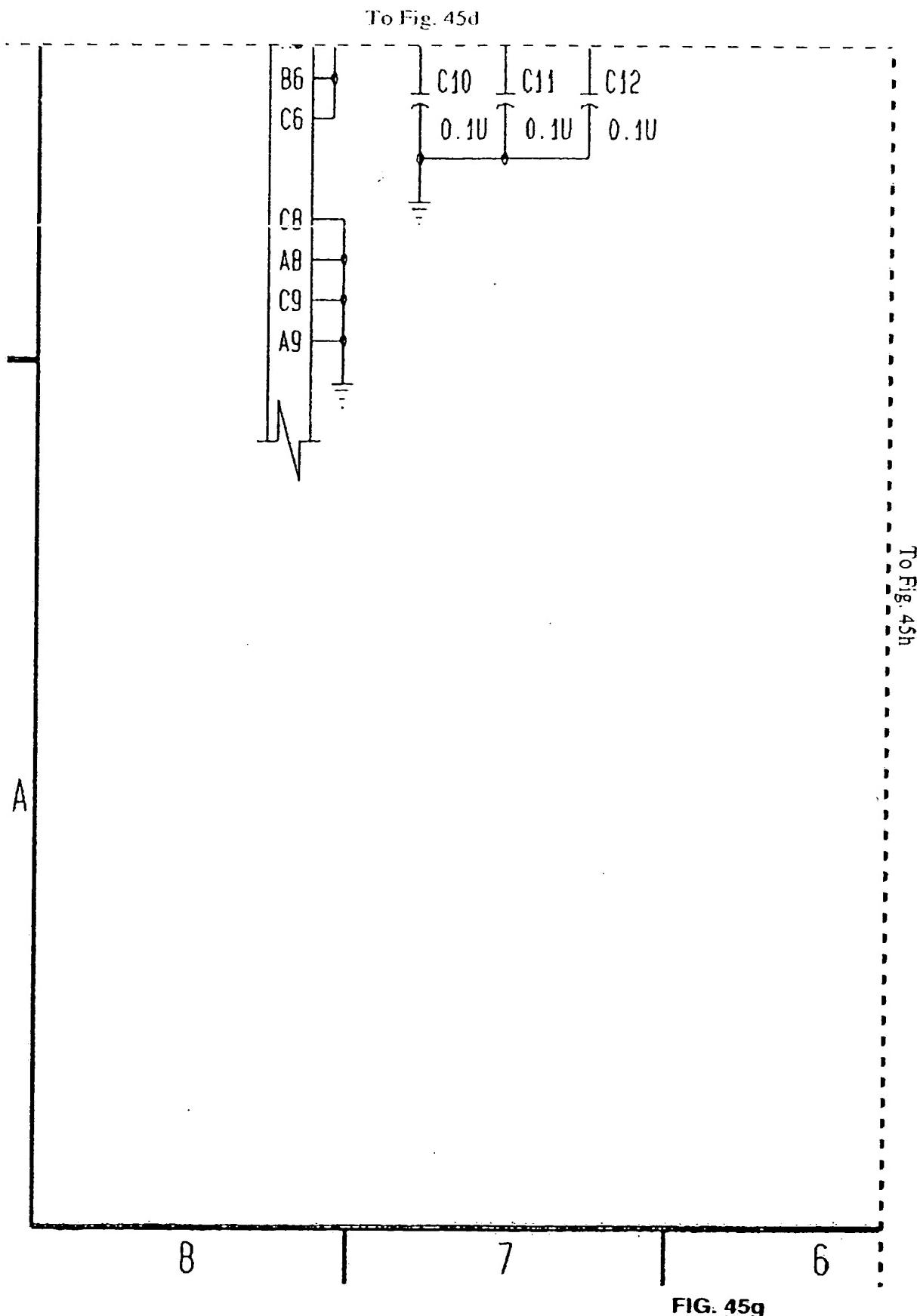


FIG. 45c









97 07 207

To Fig. 45e

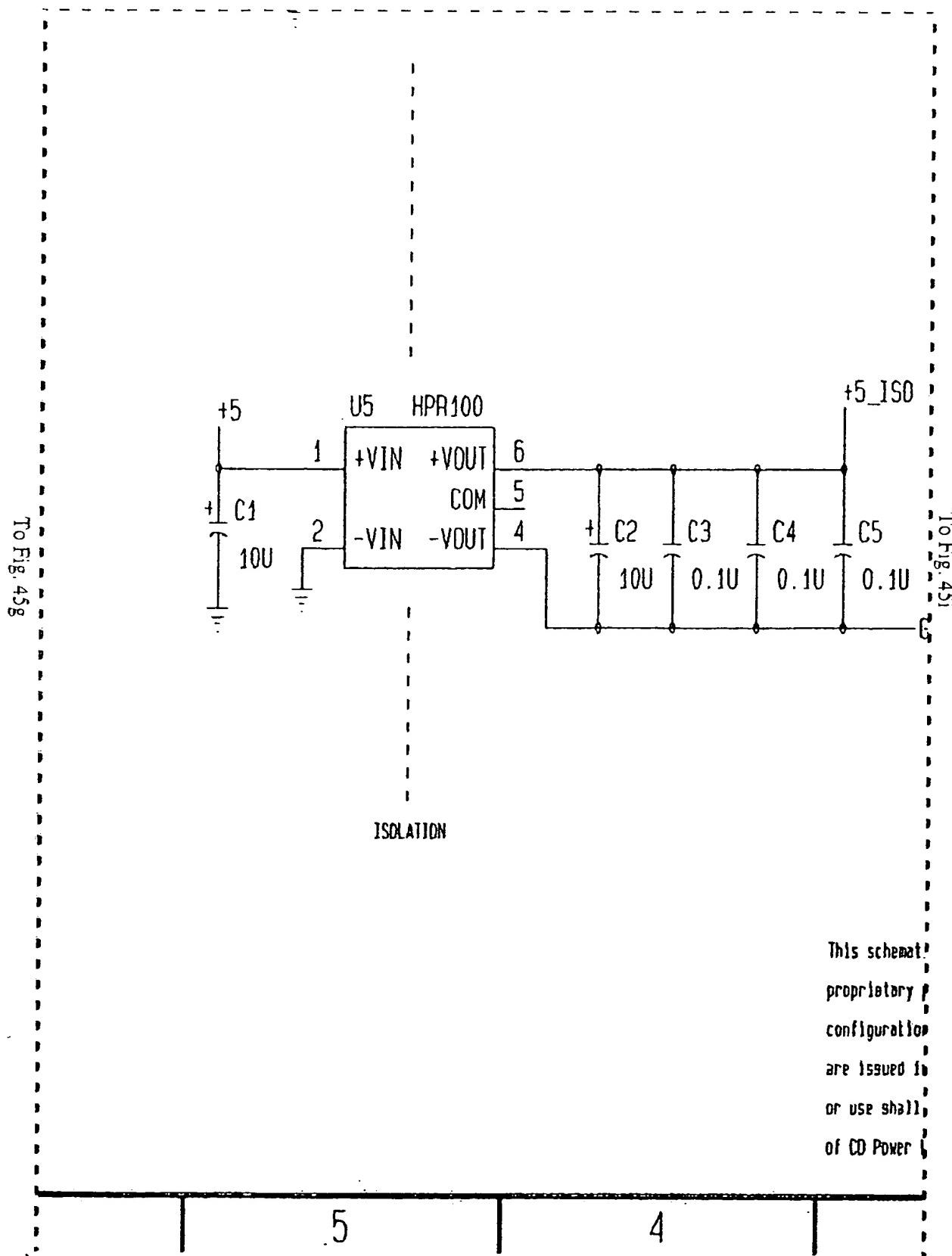


FIG. 45h

198 18 207

To Fig. 45f

To Fig. 45h
SND ISO

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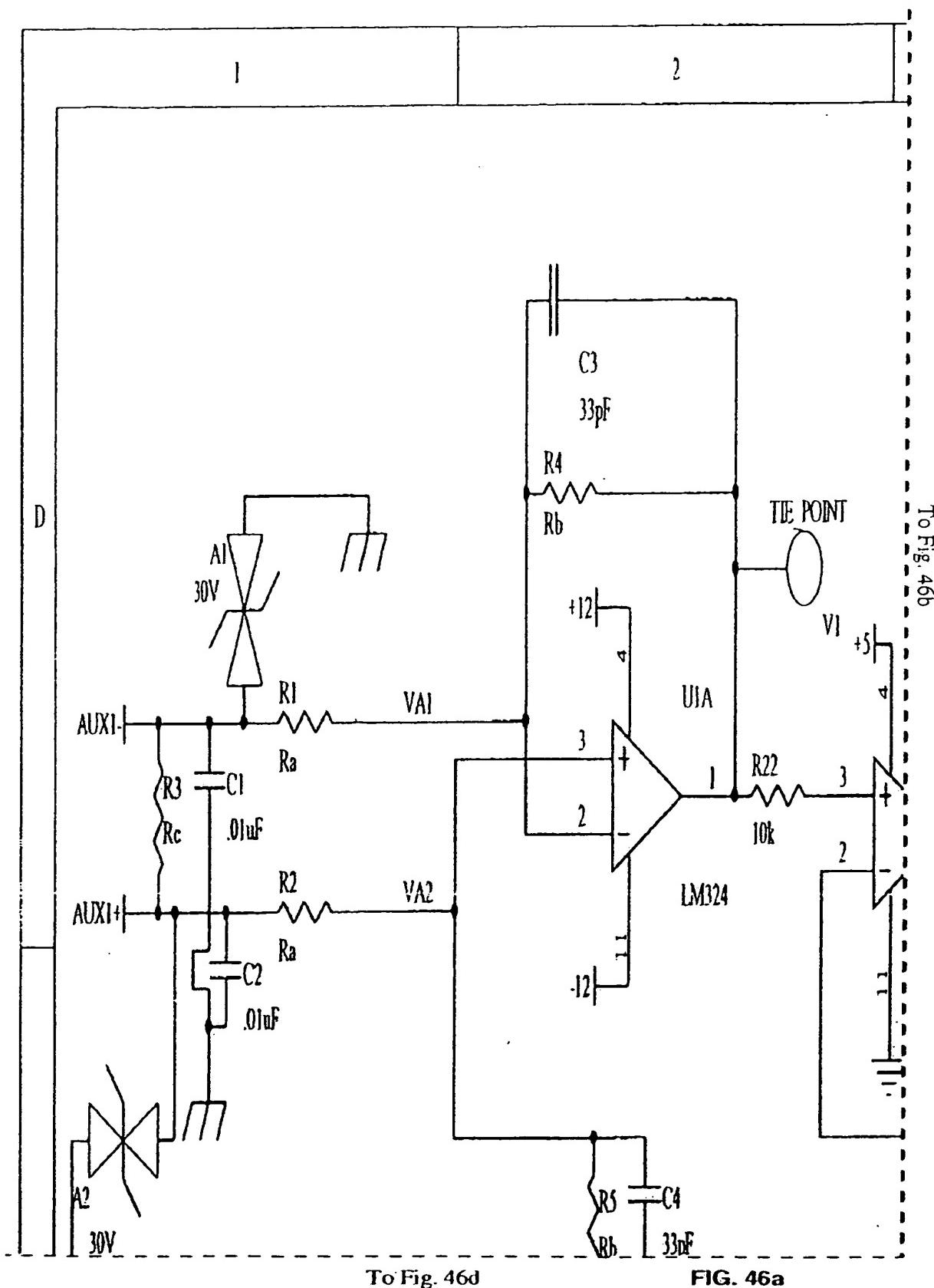
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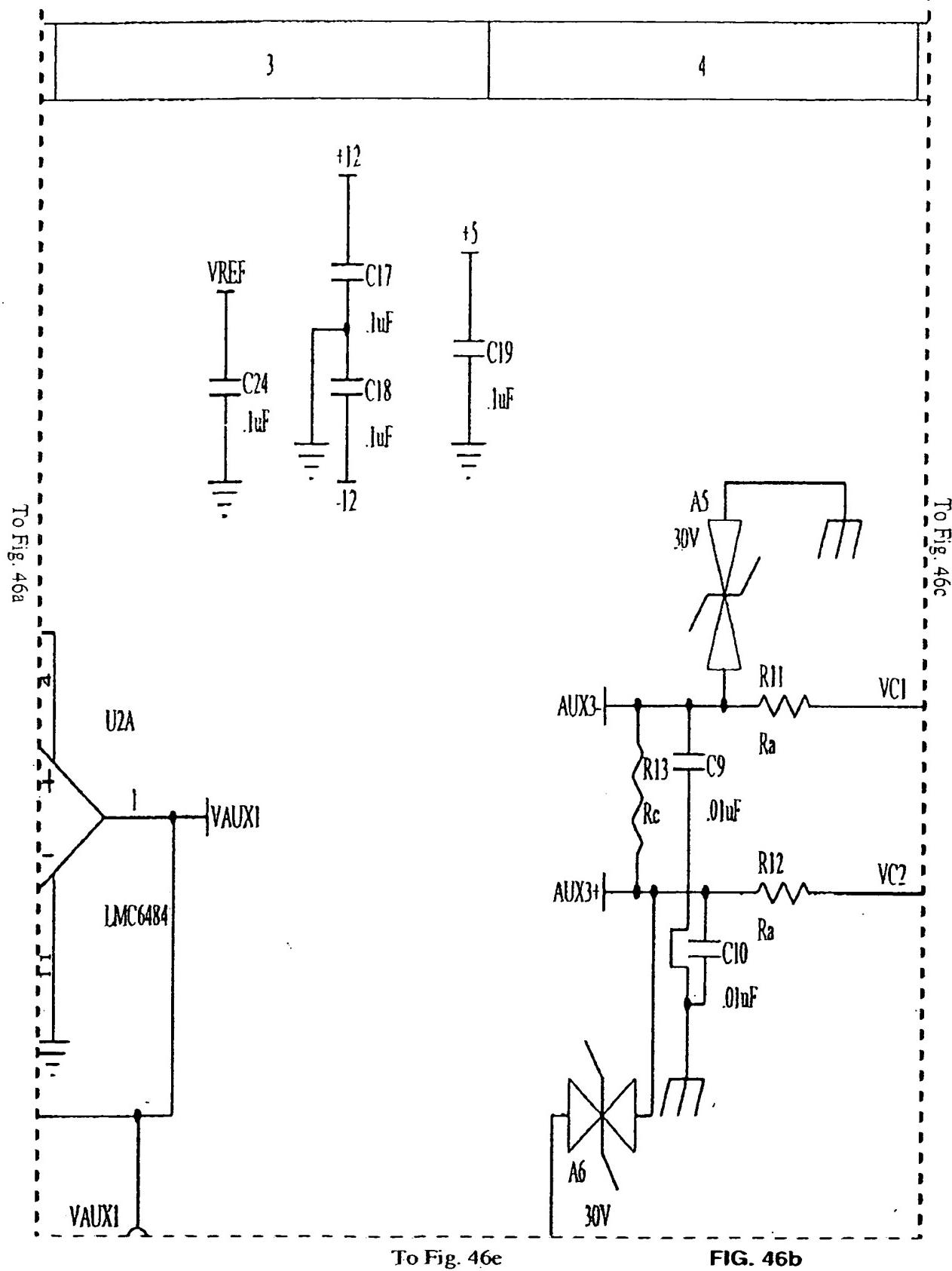
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FIG. 45i



To Fig. 46d

FIG. 46a



To Fig. 46e

FIG. 46b

201 06 207

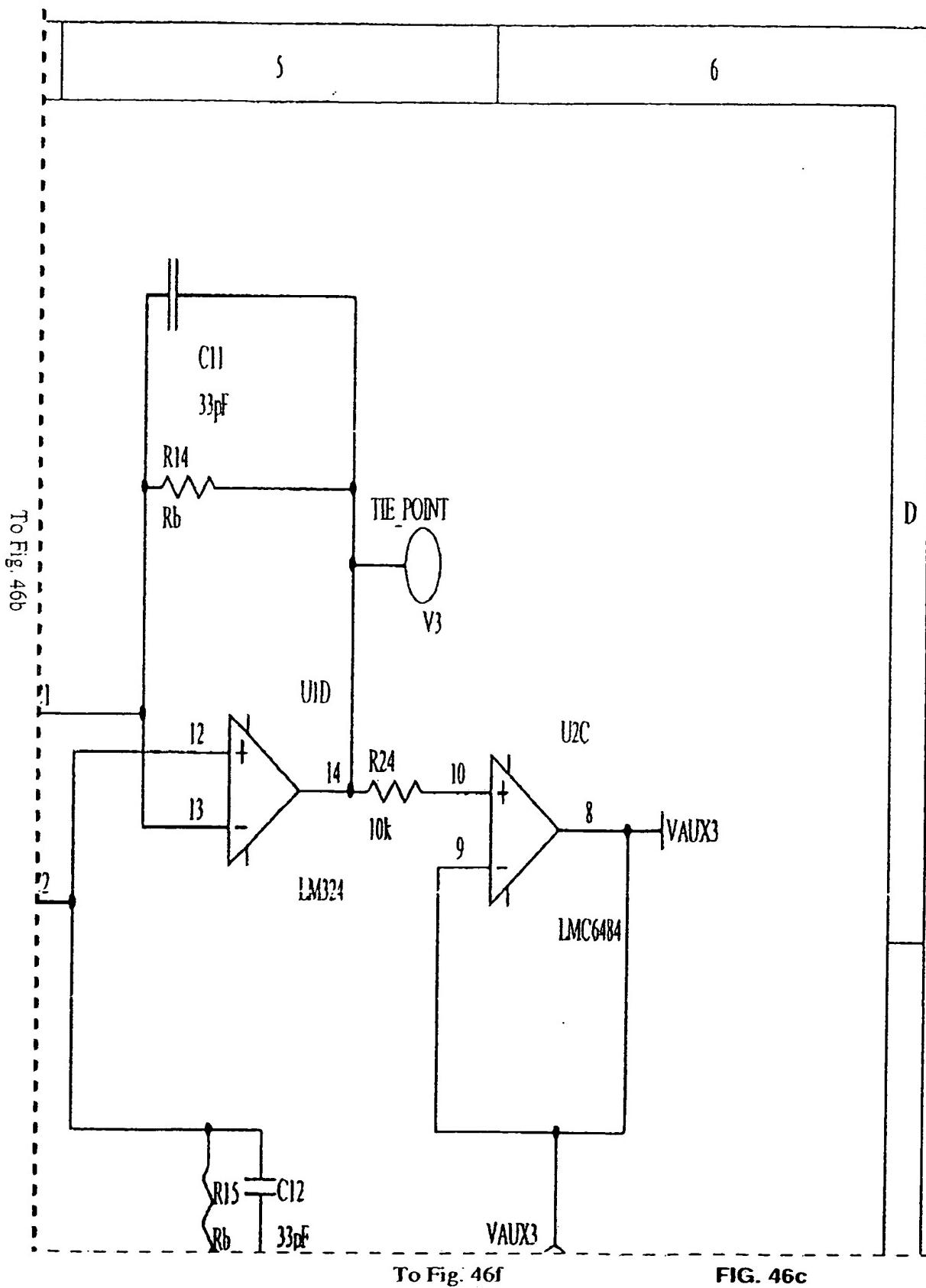
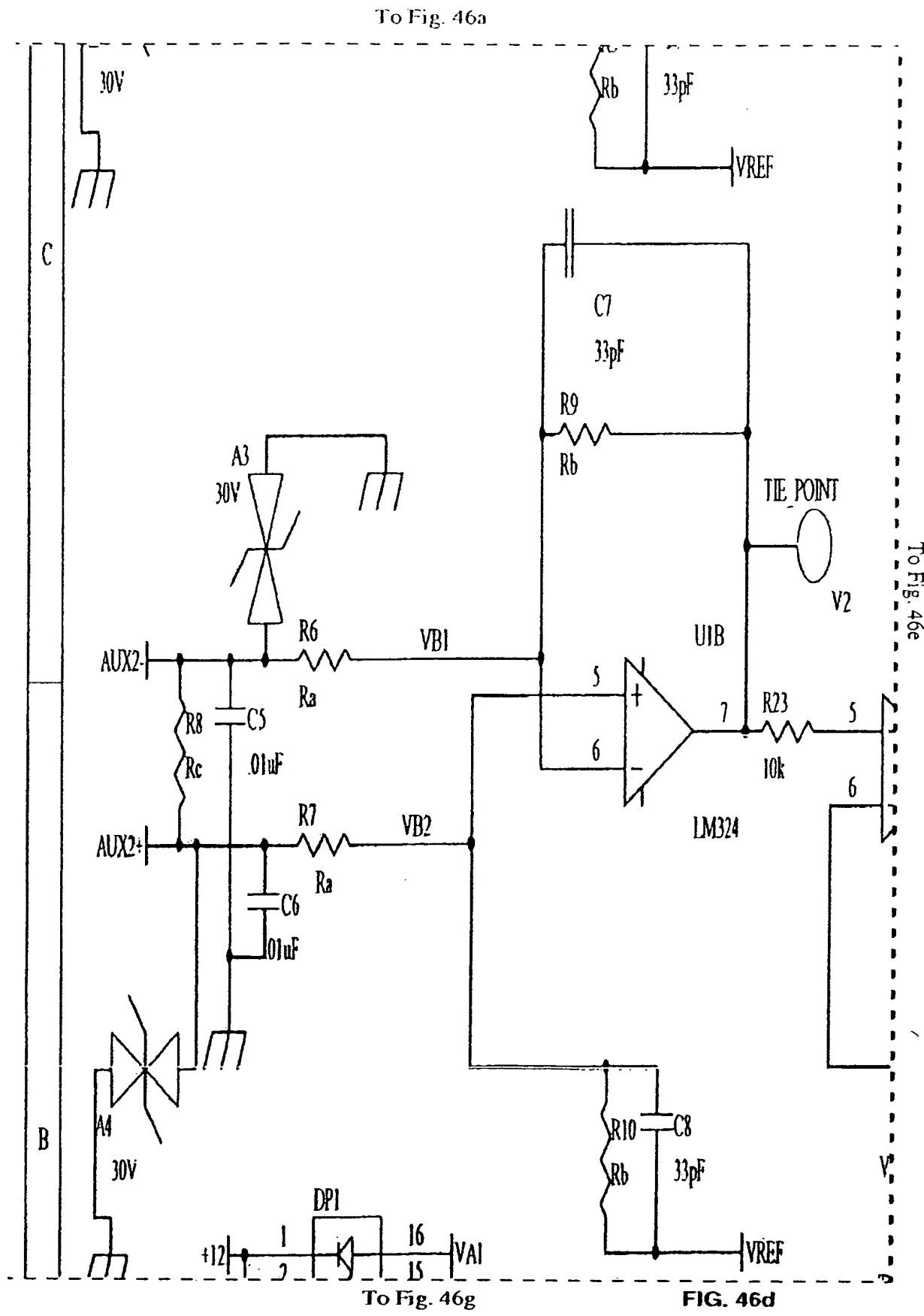
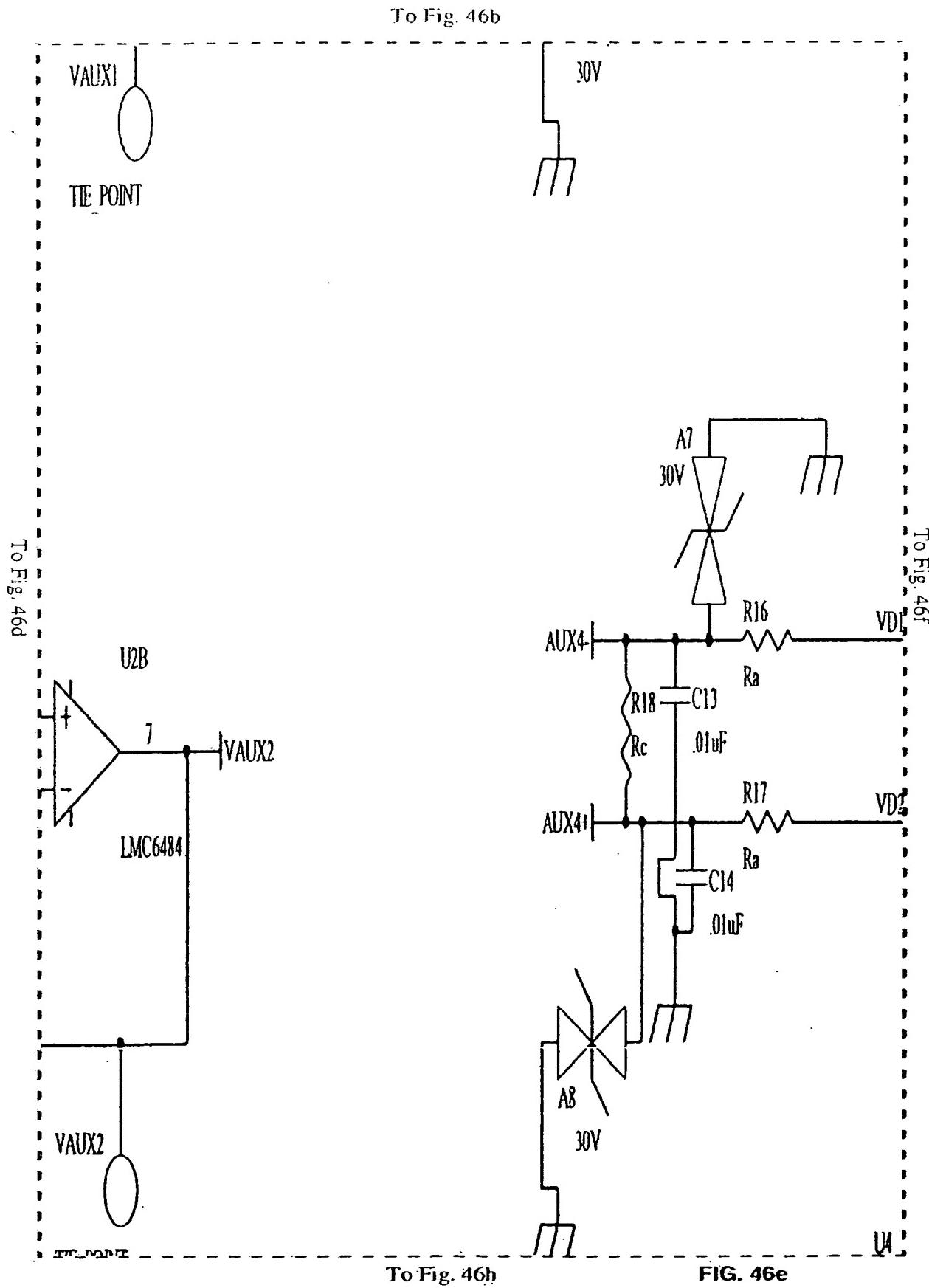
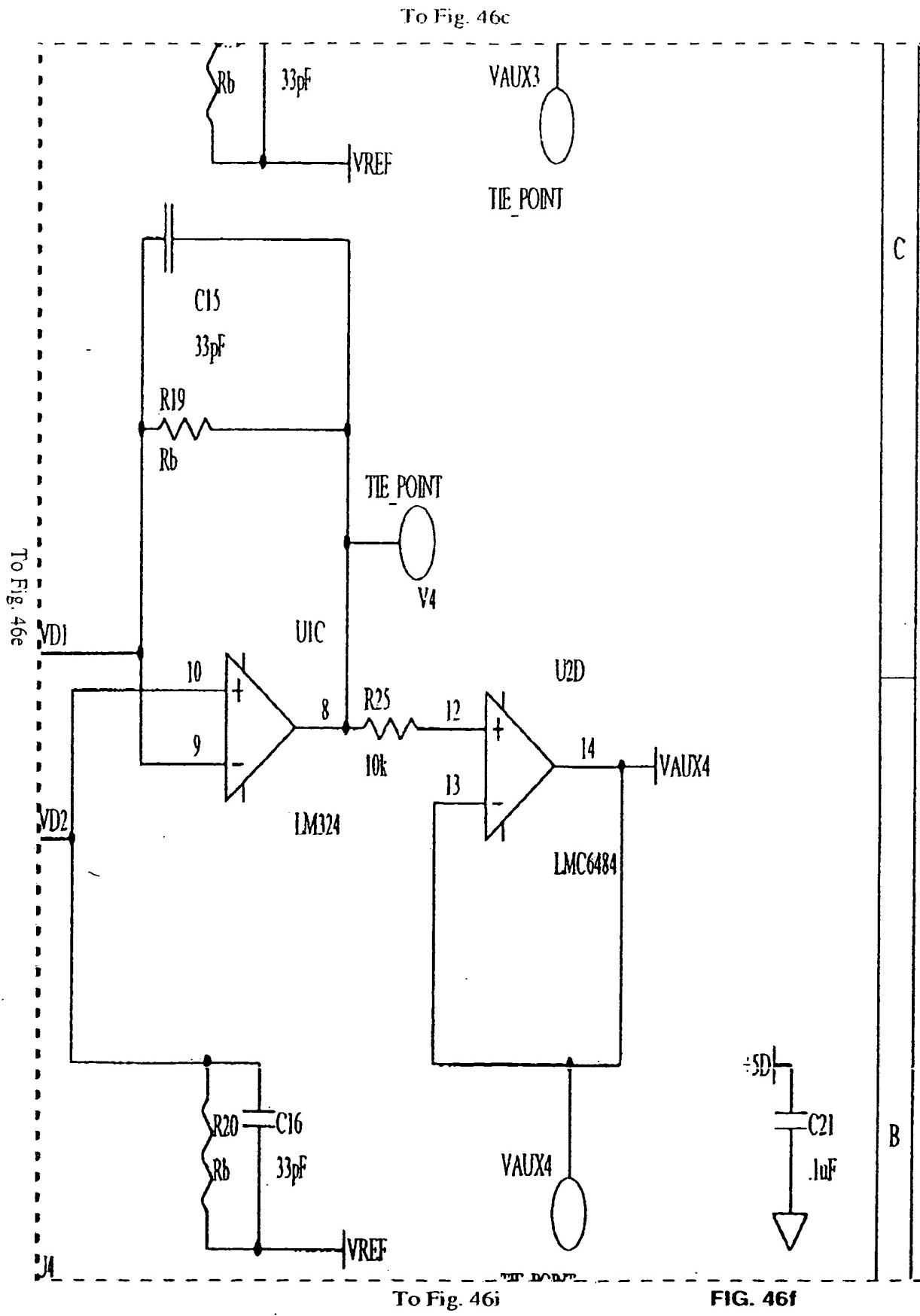


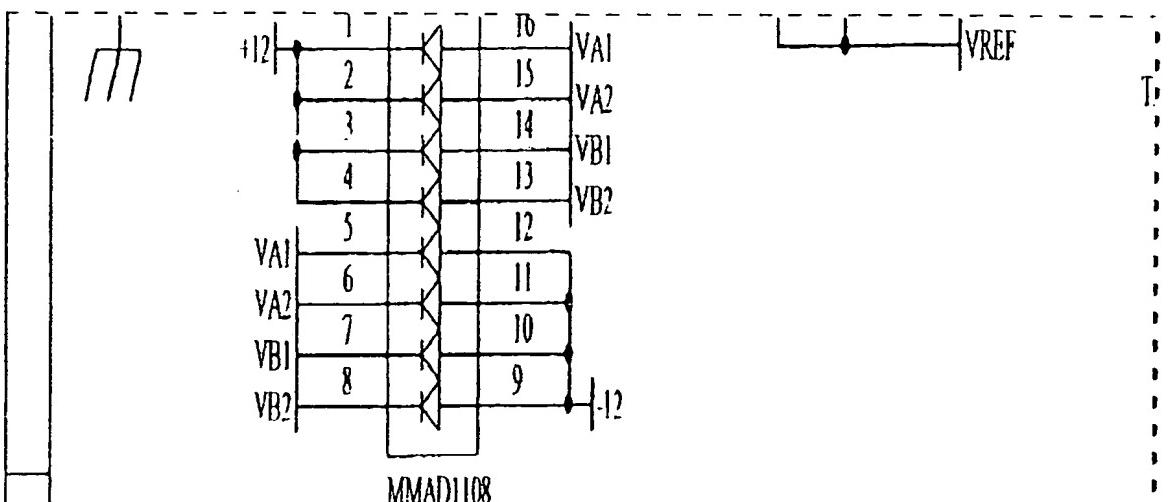
FIG. 46c



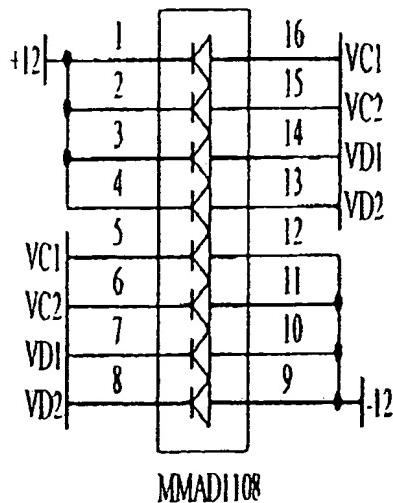




To Fig. 46d



DP2



To Fig. 46h

0.20mA Ra=49.9k, Rb=30.1k, Rc=100
 0.1mA Ra=11.3k, Rb=274k, Rc=49.9
 0.10V Ra=49.9k, Rb=5.76k
 0.1V Ra=49.9k, Rb=57.6k

(Note Ra & Rb have both Surface Mount and Through

A

?

FIG. 46g

To Fig. 46e

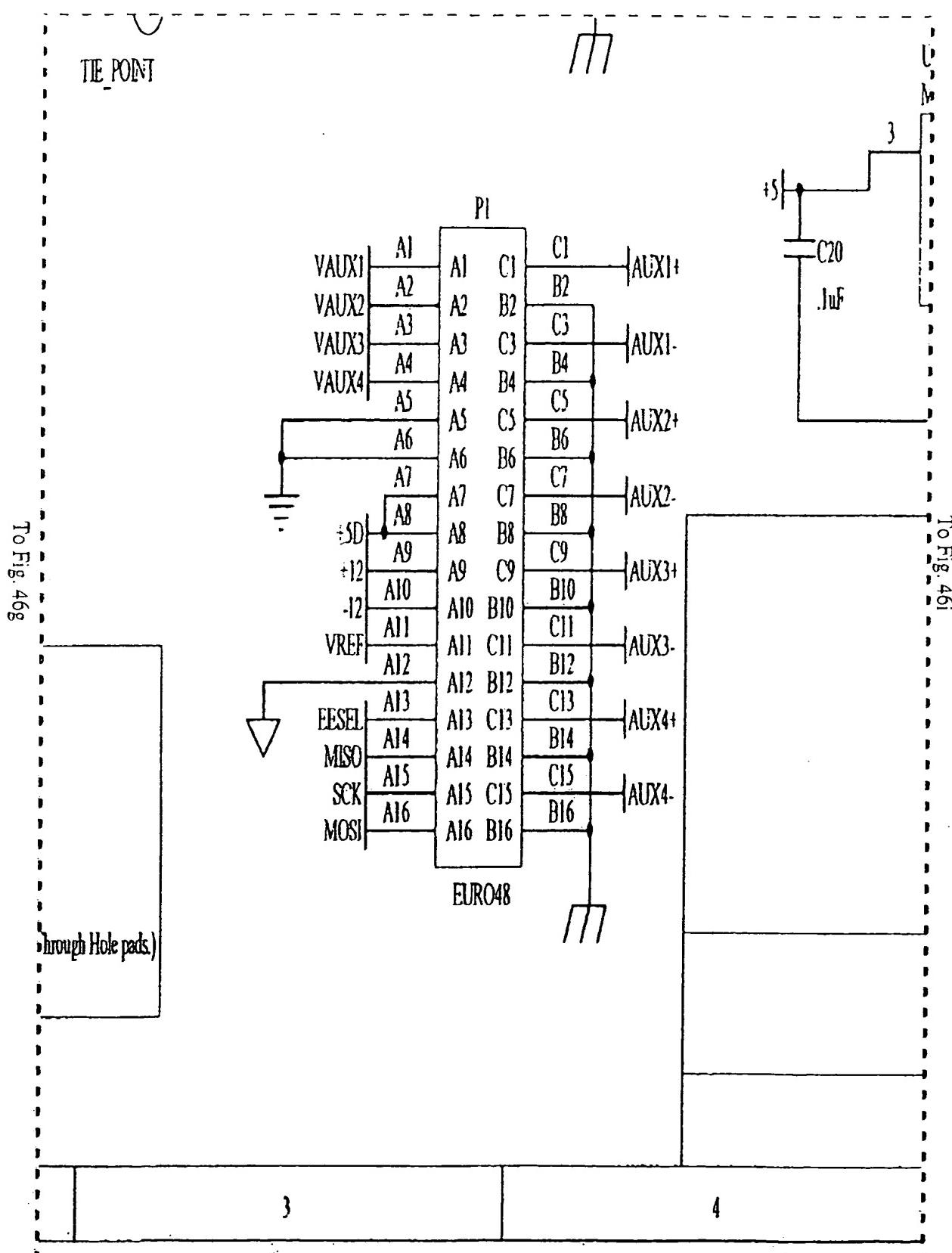


FIG. 46h

Inventor(s): Ronald G. Hart

Attorney Docket No. 6270/76, Serial No. 10/068,431

To Fig. 46f

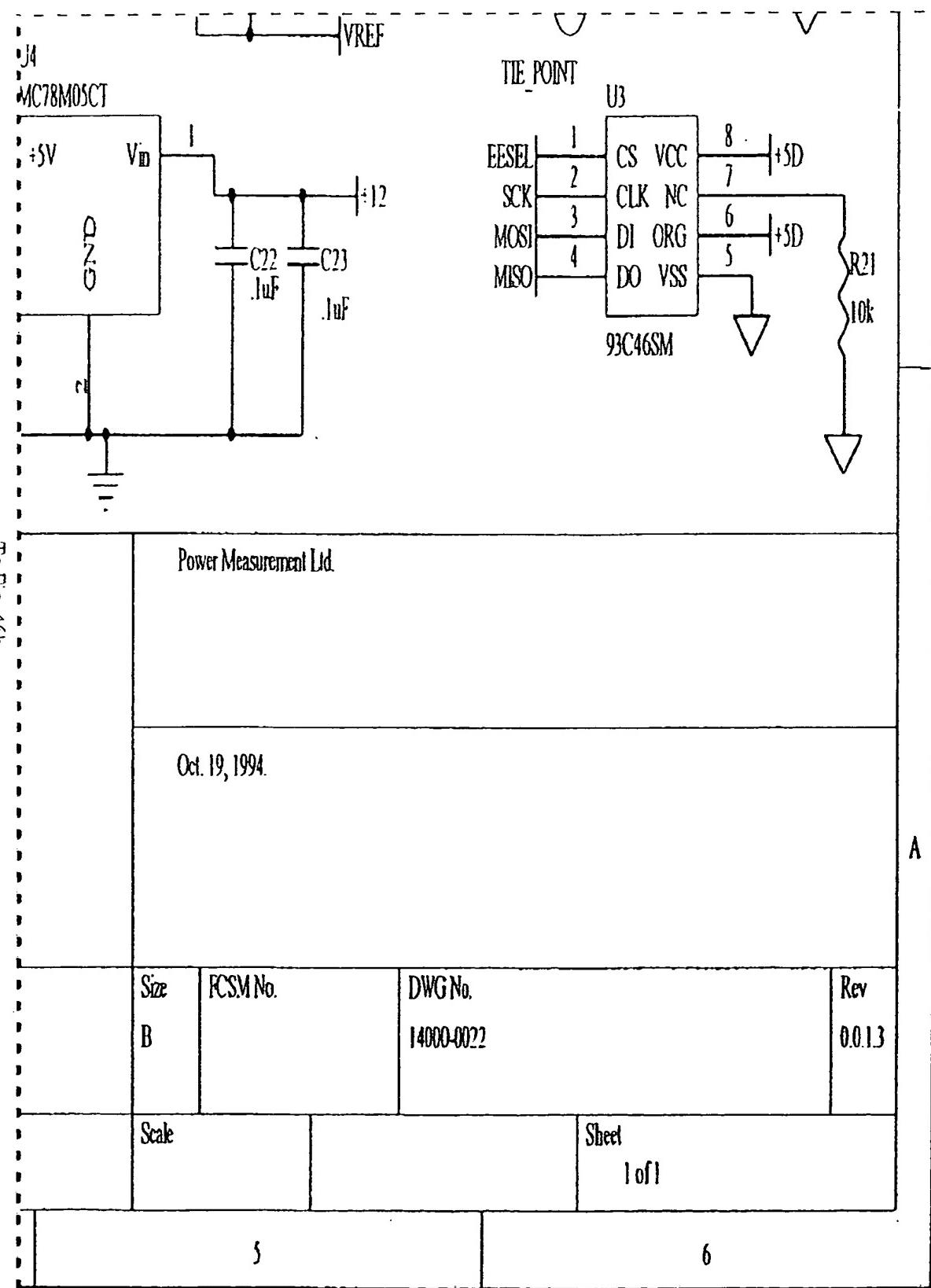


FIG. 46i